
magicolor® 5440 DL

User's Guide

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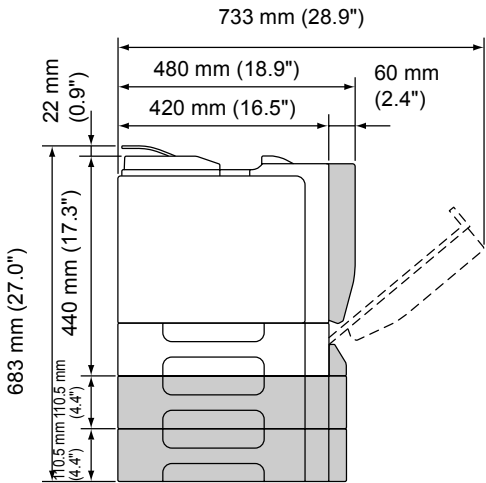
Introduction

1

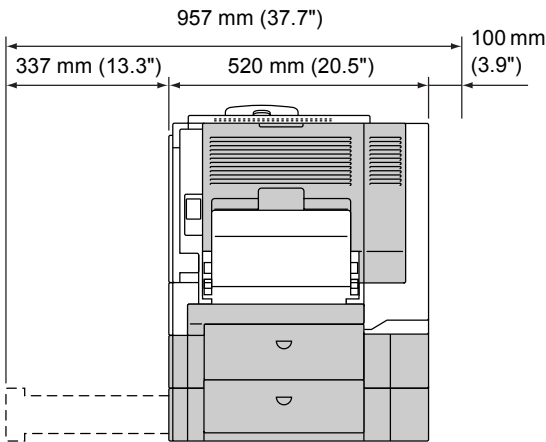
Getting Acquainted with Your Printer

Space Requirements

To ensure easy operation, consumable replacement and maintenance, adhere to the recommended space requirements detailed below.



Front View



Side View



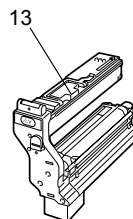
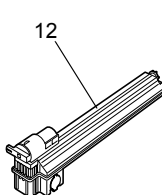
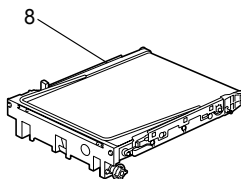
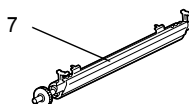
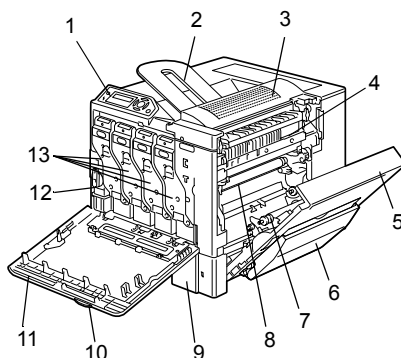
The options appear shaded in the above illustrations.

Printer Parts

The following drawings illustrate the parts of your printer referred to throughout this guide, so please take some time to become familiar with them.

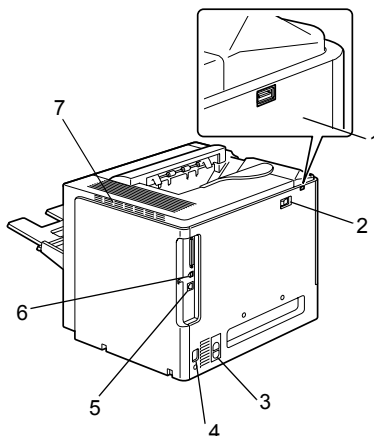
Front View

- 1—Control panel
- 2—Output tray
- 3—Top cover
- 4—Fuser unit
- 5—Right side cover
- 6—Manual feed tray
- 7—Transfer roller
- 8—Transfer belt unit
- 9—Tray 1
- 10—Grip
- 11—Front cover
- 12—Waste toner bottle
- 13—Toner cartridge



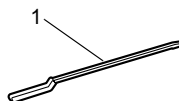
Rear View

- 1—KONICA MINOLTA Digital Camera Direct Print Port
- 2—Power switch
- 3—Ozone filter
- 4—Power connection
- 5—10Base-T/100Base-TX (IEEE 802.3) Ethernet Interface port
- 6—USB port
- 7—Ventilation grilles



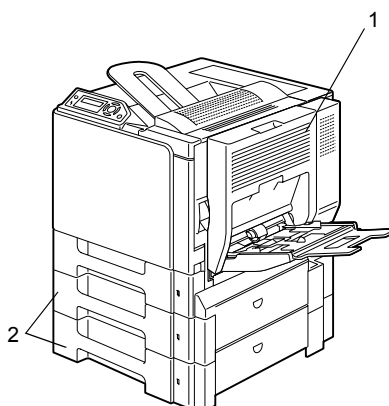
Accessory

- 1—Laser lens cleaning tool



Front View with Options

- 1—Duplex option
- 2—Lower feeder units (Tray 2 and Tray 3)



Software Installation

2

Utilities and Documentation CD-ROM

Drivers

Drivers	Use/Benefit
Printer Driver for Windows XP/Server 2003/2000	These drivers give you access to all of the printer features, including finishing and advanced layout. See also “Displaying Printer Driver Settings (for Windows)” on page 9.
Printer Driver for Windows Me/98SE	
Printer Driver for Windows NT 4.0	
Printer Driver for Macintosh OS X	
Printer Driver for Linux	



For details of the Macintosh and Linux printer drivers, refer to the magicolor 5440 DL Reference Guide.



For details on the installation of the Windows printer drivers, refer to the magicolor 5440 DL Installation Guide.

Utilities

Utilities	Use/Benefit
Status Display (Windows only)	<p>From the Status Display, the current status of this printer, such as its consumables and error information, can be checked.</p> <p>For details, refer to “Working with the Status Display” on page 14.</p>
Printer Status Monitor Center (Windows only)	<p>The status of KONICA MINOLTA products on the same network can be checked.</p> <p>For details, refer to “Working With the Printer Status Monitor Center” on page 16.</p>
PageScope Web Connection	<p>With the web browser, the status of printers can be checked, and each setting can be changed.</p> <p>For details, refer to the magicolor 5440 DL Reference Guide.</p>

System Requirements

- Personal computer
 - Pentium 2: 400 MHz (Pentium 3: 500 MHz or higher is recommended)
 - Power Mac G3 or later (G4 or later is recommended)
- Operating System
 - Microsoft Windows XP, Windows Server 2003, Windows 2000, Windows Me, Windows 98SE, Windows NT 4.0



The 64-bit driver supports x64 operating systems running on AMD64 or Intel Pentium 4 with EM64T platforms.

- Mac OS X v10.2 or later (We recommend installing the newest patch.)
- Red Hat Linux 8.0 or later (CUPS 1.1.15 or later), SuSE Linux 8.1 or later (CUPS 1.1.15 or later)



This printer driver can also be used with Linux versions other than those listed above if CUPS 1.1.15 or later is installed.

- Free hard disk space
 - Approximately 20 MB of free hard disk space for printer driver and Status Display
 - Approximately 128 MB of free hard disk space for image processing
- RAM
 - 128 MB or more
- CD-ROM/DVD drive
- I/O interface
 - 10Base-T/100Base-TX (IEEE 802.3) Ethernet interface port
 - USB Revision 2.0 compliant port



For details of the Macintosh and Linux printer drivers, refer to the mag-icolor 5440 DL Reference Guide.

Selecting Driver Options/Defaults (for Windows)

Before you start working with your printer, you are advised to verify/change the default driver settings. Also, in case you have options installed, you should “declare” the options in the driver.

- 1 Choose the driver’s properties as follows:
 - (Windows XP/Server 2003)
From the **Start** menu, choose **Printers and Faxes** to display the **Printers and Faxes** directory. Right-click the KONICA MINOLTA magicolor 5440DL printer icon and choose **Printing Preferences**.
 - (Windows 2000)
From the **Start** menu, choose **Settings** and then **Printers** to display the **Printers** directory. Right-click the KONICA MINOLTA magicolor 5440DL printer icon and choose **Printing Preferences**.
 - (Windows Me/98SE)
From the **Start** menu, choose **Settings** and then **Printers** to display the **Printers** directory. Right-click the KONICA MINOLTA magicolor 5440DL printer icon and choose **Properties**. Choose **Printer Properties**.
 - (Windows NT 4.0)
From the **Start** menu, choose **Settings** and then **Printers** to display the **Printers** directory. Right-click the KONICA MINOLTA magicolor 5440DL printer icon and choose **Document Defaults**.
- 2 If you have installed options, proceed with the next step. Otherwise, skip to step 8.
- 3 Select the **Device Options Setting** tab.
- 4 Check that the options have been correctly identified.




*Since **Auto configure** is selected as a default with the driver, installed options are automatically identified. If, for some reason, the options are not correctly identified, follow the operations described in steps 5 through 7.*

- 5 Clear the **Auto configure** check box.
- 6 Select an option (one at a time) and click **Add**. The option moves to the **Installed Options** list.




*If you accidentally add an uninstalled option, select the option in the **Installed Options** list and then click **Remove**.*

- 7 Click **Apply**.
-  Depending on the version of the operating system, **Apply** may not appear. If this is the case, continue with the next step.
- 8 Select the **Paper** tab. Select the default settings for your printer, such as the default media format you use.
- 9 Click **Apply**.
- 10 Click **OK** to exit from the Properties dialog box.

Uninstalling the Printer Driver (for Windows)

This section describes how to uninstall the magicolor 5440 DL printer driver if necessary.

- 1 From the **Start** menu, choose **Programs** (Windows XP/Server 2003: **All Programs**), **KONICA MINOLTA**, **magicolor 5440DL**, and then **Uninstall**.
- 2 In the Uninstall window, select the KONICA MINOLTA magicolor 5440DL. Then click **Uninstall**.
- 3 The magicolor 5440 DL driver will be uninstalled from your computer.

 When using Windows 98SE, restart the computer after uninstalling the printer driver.

Displaying Printer Driver Settings (for Windows)

Windows XP/Server 2003

- 1 From the **Start** menu, choose **Printers and Faxes** to display the **Printers and Faxes** directory.
- 2 Right-click the KONICA MINOLTA magicolor 5440DL printer icon and choose **Printing Preferences**.

Windows 2000/Me/98SE/NT 4.0

- 1 From the **Start** menu, point to **Settings**, and then click **Printers** to display the **Printers** directory.
- 2 Display the printer driver settings:
 - **Windows 2000**—Right-click the KONICA MINOLTA magicolor 5440DL printer icon and choose **Printing Preferences**.
 - **Windows Me/98SE**—Right-click the magicolor 5440DL printer icon and choose **Properties**, then select **Printer Properties**.
 - **Windows NT 4.0**—Right-click the KONICA MINOLTA magicolor 5440DL printer icon and choose **Document Defaults**.

Using the Printer Driver

Common Buttons

The buttons described below appear on each tab.

OK

Click to exit the Properties dialog box, saving any changes made.

Cancel

Click to exit the Properties dialog box without saving any changes made.

Apply

Click to save all changes without exiting the Properties dialog box.



*Depending on the version of the operating system, **Apply** may not appear.*

Help

Click to view the help.

Easy Set

To save the current settings, enter a name, and then click **Save**. Afterward, the saved settings can be selected from the drop-down list.

Select **Default** from the drop-down list to reset the functions in all tabs to their default values.

Page Layout

Click the button to display a sample of the page layout in the figure area.

Printer Figure

Click the button to display an image of the printer (with all installed options) in the figure area.

Setup Tab

The Setup tab allows you to

- Print several pages of a document on the same page (N-up printing)
- Provide a watermark on printed documents
- Design custom watermarks
- Specify duplex and booklet printing
- Specify the paper source
- Define the type of media
- Specify different paper for the first page of a document

Paper Tab

The Paper tab allows you to

- Specify the size of the original document
- Define custom media sizes
- Fit printed documents to a specified media size
- Select the output media size
- Scale (expand/reduce) documents
- Specify the orientation of the media
- Rotate the print image 180 degrees
- Specify the number of copies
- Turn on/off the printer's sorting function

- Turn on/off the Transmit Once function
- Print using a form overlay
- Create/edit a form overlay
- Change the print position (Image shift printing)

Quality Tab

The Quality tab allows you to

- Switch between color and monochrome printing
- Specify color matching (Images, Graphics and Text)
- Specify the resolution for the printout
- Control the tones of an image (Contrast)
- Control the darkness of an image (Brightness)
- Control the color purity of an image (Saturation)
- Control the clarity of an image (Sharpness)

Device Options Setting Tab

The Device Options Setting tab allows you to

- Automatically identify installed options
- Activate the optional lower feeder units (Tray 2/3) and/or the duplex option
- Enter the user name that is sent with the print job(s)
- View information about the printer driver

***Using the
Windows Status
Display and
Printer Status
Monitor Center***

3

Working with the Status Display

Introduction

The Status Display shows information about the current status of the printer.

Opening the Status Display and Showing the Supplies Status

Use one of the following steps to open the Status Display:

- **Windows XP/Server 2003**—From the **Start** menu, choose **All Programs**, **KONICA MINOLTA**, **magicolor 5440DL**, and then **Status**.
- **Windows 2000/Me/98SE/NT 4.0**—From the **Start** menu, choose **Programs**, **KONICA MINOLTA**, **magicolor 5440DL**, and then **Status**.

Altering the Size of the Status Display Window

- From the **Display** menu, choose **Status (Reduce)** to decrease the size of the window.
- From the **Display** menu, choose **Status (Expand)** to increase the size of the window.

Using the Status Display

- When the background of the printer graphic is green, the printer is in standby mode or a job is printing normally.
- When the background of the printer graphic is red or yellow, there is an error and the job has been interrupted. The status of the printer and the error message are shown in the dialog boxes on the left.

The function areas include:

- **Printer Status**—Displays text messages that describe the current operational status of the printer.
- **How to Recover**—Provides you with explanations of what you need to do in order to correct problems and recover from error conditions.
- **Warning Status**—Displays text messages that alert you of conditions such as low toner.
- **Printer Status Figure**—Shows a graphic representation of the printer and indicates where the problem is.
- **Printing Status**—Displays the status of the current print job.

- **Select Popup Message**—Allows you to choose which message(s) you want to bring to the foreground when that particular condition occurs with the printer.
- **Printer Information**—Allows you to check various information such as the number of prints.
- **Supplies Status**—Displays the usage status (approximate percentage remaining) of each toner cartridge.

Recognizing Status Display Alerts

When the Status Display detects a printing problem, the icon on the Windows task bar changes from green (normal) to yellow (warning) or red (error), depending on the severity of the printer problem.

Recovering from a Status Display Alert

When the Status Display notifies you of a printing problem, double-click its icon on the Windows task bar to open the Status Display. The Status Display identifies what type of error has occurred.

Closing the Status Display

To close the Status Display from the **File** menu, choose **Exit**.



*If you click the **X** button in the upper-right corner of the Status Display window to close the window, the Status Display remains available at the bottom right of the taskbar. Double-click the icon to open the Status Display window again.*

Working With the Printer Status Monitor Center

Introduction

Printer Status Monitor Center is an application that shows the status of multiple printing devices connected to the host through local ports (USB) or network ports. Printer Status Monitor Center locates network printing devices by using the Service Location Protocol (SLP), and only supports printing devices responding to KONICA MINOLTA-specific SLP and PDL queries such as the magicolor 2430 DL, the magicolor 5430 DL and the magicolor 5440 DL.



If a KONICA MINOLTA product is not compatible with both SLP and KONICA MINOLTA-specific PDL, Printer Status Monitor Center cannot be used.

System Requirements

- Operating System
Windows XP/Server 2003/2000/Me/98SE/NT 4.0
- Printer Ports Supported by Printer Status Monitor Center
 - Ethernet port
 - USB port

Opening the Printer Status Monitor Center and Showing the Supplies Status

Follow the appropriate operation described below to open the Printer Status Monitor Center.

- **Windows XP/Server 2003**—From the **Start** menu, choose **All Programs, KONICA MINOLTA, magicolor 5440DL**, and then **Printer Status Monitor Center**.
- **Windows 2000/Me/98SE/NT 4.0**—From the **Start** menu, choose **Programs, KONICA MINOLTA, magicolor 5440DL**, and then **Printer Status Monitor Center**.

Using the Printer Status Monitor Center

- **Printer Name**—Displays the model name of the local printer or printer on the network together with a printer icon. The printer icon changes color according to the connection and printer status. A red icon indicates an error, a yellow icon indicates a warning, and a green icon indicates normal operation.

Depending on the setting in the Options dialog box, Status Display or PageScope Web Connection appears when you double-click the printer name.



If the name of the printer cannot be detected, “Unknown” appears next to the Printer name.



If the selected printer is incompatible with Status Display or PageScope Web Connection, it will not appear when you double-click the printer name.



If the device is connected to the USB port or if “Unable to Connect” appears under Status, Status Display or PageScope Web Connection does not appear, even when you double-click the printer name.

- **Port**—Displays the name of the port where the printer is connected. For a local printer, the type (USB) is displayed. For a network printer, the IP address is displayed.
- **Status**—Displays the printer status. The same information for Printer Status in the Status Display is displayed.
- **Supply Status: C,M,Y,K %Remaining**—Displays (as a percentage) the approximate amount of toner remaining in the cartridges. The listed values are, from the left: C (cyan), M (magenta), Y (yellow) and K (black).



Click the heading of each column to switch the order between descending and ascending.

Action Menu

- **Update Printers**—Searches again for the printers on the network.
- **Network Printers**—Allows the IP address of network printers to be added or removed.

■ Options

Status Monitor Application for Network Printers	Specify whether Status Display or PageScope Web Connection appears when the name of the printer in the screen is double-clicked. The default setting is Status Display. This setting only applies to network printers.
Timeout	Two timeout intervals can be specified. <ul style="list-style-type: none">■ Printer Detection Timeout■ Printer Status Query Timeout

Recognizing Printer Status Monitor Center Alerts

If a red or yellow icon appears, open Status Display or PageScope Web Connection, and then check the detailed information. For details on Status Display, refer to “Working with the Status Display” on page 14. For details on PageScope Web Connection, refer to the magicolor 5440 DL Reference Guide.

Closing the Printer Status Monitor Center

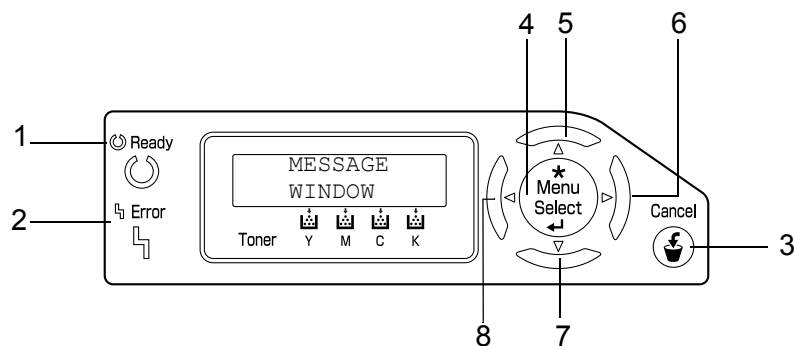
To close Printer Status Monitor Center, choose **Exit** from the **Action** menu, or click the **X** button in upper-right corner of the Printer Status Monitor Center window.

***Printer Control
Panel and
Configuration
Menu***



4







About the Control Panel

The control panel, located on the top of the printer, allows you to direct the printer's operation. In addition, it displays the current status of the printer, including any condition that needs your attention.



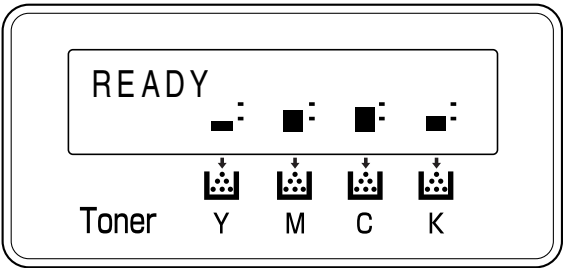
Control Panel Indicators and Keys

No.	Indicator	Off	On
1	 Ready	The printer is not ready to accept data.	The printer is ready to accept data.
2	 Error	No problem.	The printer requires operator attention (usually accompanied by a status message in the message window.)

No.	Key	Function
3	<p>Cancel</p> 	<ul style="list-style-type: none"> ■ Cancels the currently displayed menu or menu choice ■ Allows you to cancel one or all print jobs that are currently being printed or processed: <ol style="list-style-type: none"> 1. Press the Cancel key. 2. Press the Right or Left keys to select either JOB CANCEL/CURRENT JOB or JOB CANCEL/ALL JOBS. 3. Press the Select key. The print job(s) is cancelled.
4	<p>* Menu Select</p> 	<ul style="list-style-type: none"> ■ Enters the menu system ■ Moves down in the menu structure ■ Selects the displayed menu choice
5		<ul style="list-style-type: none"> ■ Moves up in the menu structure ■ Within a menu choice that is changeable character by character, scrolls upward through the available characters
6		<ul style="list-style-type: none"> ■ Moves right in the menu structure ■ Moves right through the available menu choices
7		<ul style="list-style-type: none"> ■ Moves down in the menu structure ■ Within a menu choice that is changeable character by character, scrolls downward through the available characters
8		<ul style="list-style-type: none"> ■ Moves left in the menu structure ■ Moves left through the available menu choices

Toner Supply Indicators

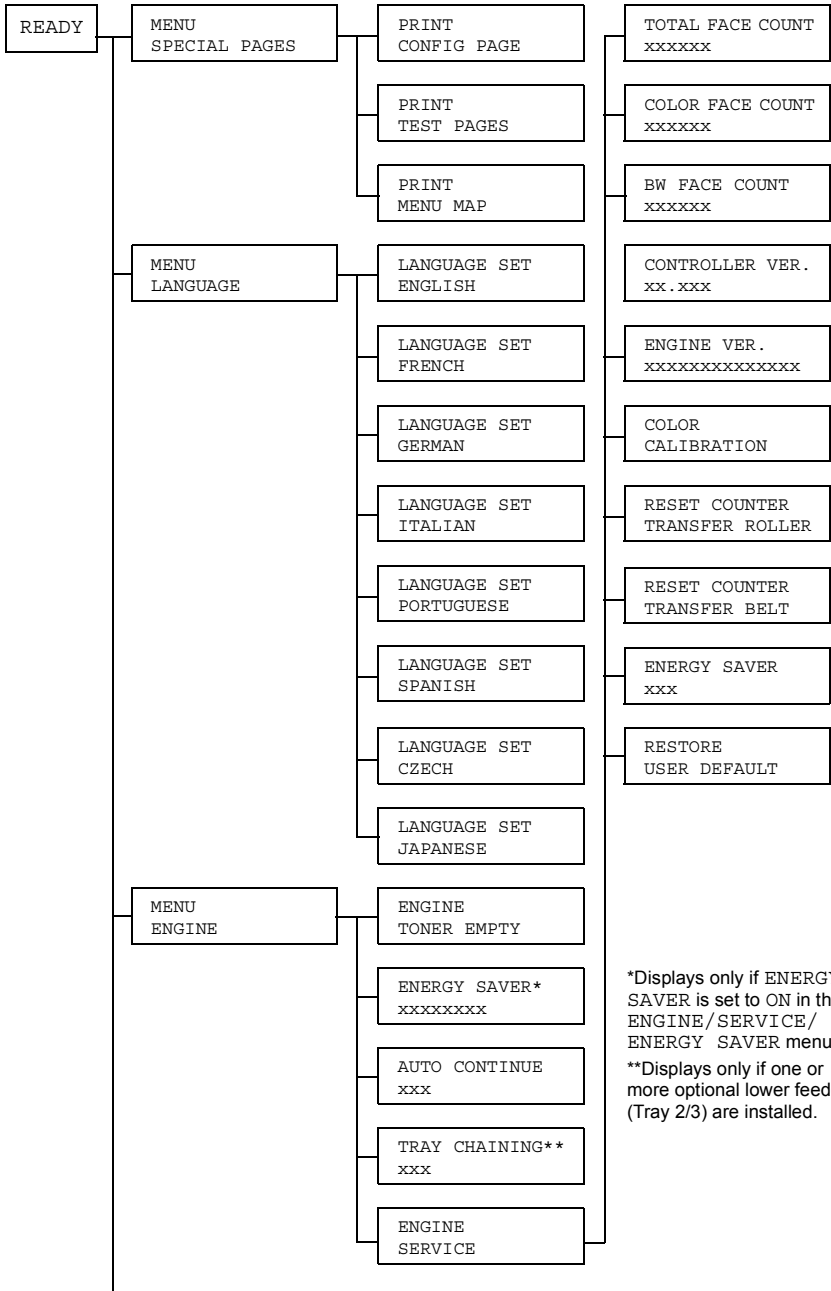
The indicators shown below will appear, indicating the amount of toner that remains in the yellow (Y), magenta (M), cyan (C), and black (K) toner cartridges.

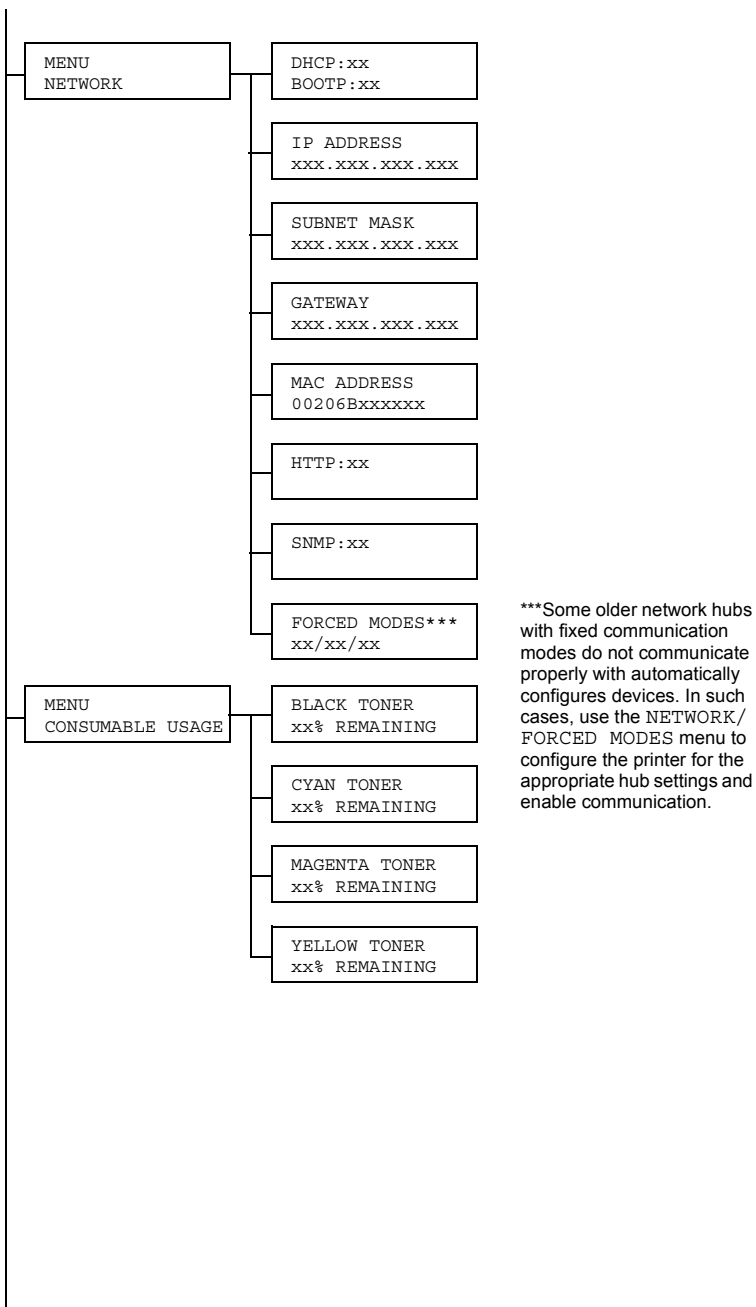


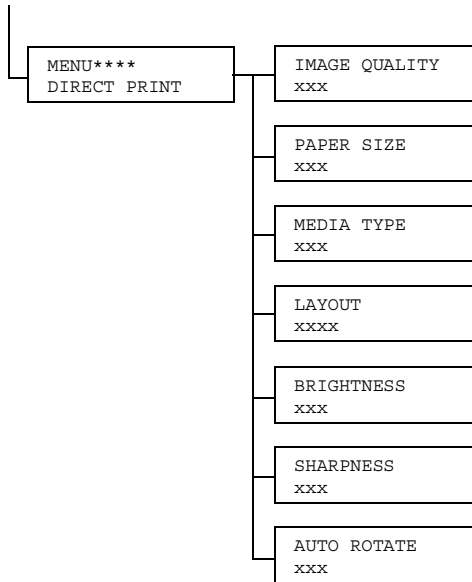
Configuration Menu Overview

The magicolor 5440 DL configuration menu accessible from the control panel is structured as shown below.

Configuration Menu







**** Displays only if the Camera Direct Photo Print Card is installed.

Special Pages Menu

PRINT CON- FIG PAGE	Print the configuration page.
PRINT TEST PAGES	Print the test pages.
PRINT MENU MAP	Print the menu map.

Language Menu

ENGLISH/FRENCH/ GERMAN/ITALIAN/ PORTUGUESE/ SPANISH/CZECH/ JAPANESE	The display language of the message window can be changed to the required language. The default setting is English.
---	---

Engine Menu



All factory default values are shown in bold.

TONER EMPTY	Settings	STOP / CONTINUE
	When set to CONTINUE, printing continues even if a toner cartridge is empty. When set to STOP, printing stops when a toner cartridge is empty.	

ENERGY SAVER	Settings	15 MINUTES / 30 MINUTES / 60 MINUTES / 120 MIN- UTES
	<p>Sets the length of time until the printer enters Energy Saver mode after it no longer receives print jobs or is not operating.</p> <p>The Energy Saver mode is automatically cancelled when any of the following occurs:</p> <ul style="list-style-type: none"> ■ The printer is restarted. ■ A print job is received. ■ Any key on the control panel is pressed. ■ The front cover or right side cover is opened, then closed. ■ A tray is opened, then closed. 	
AUTO CONTINUE	Settings	ON / OFF
	<p>When set to ON, the printer continues printing if the correct size media is not loaded in the specified tray.</p> <p>When set to OFF, the printer stops and displays a message indicating that media should be loaded into the specified tray if the specified tray runs out of media.</p>	
TRAY CHAINING	Settings	ON / OFF
	<p>When set to ON, the printer automatically switches to a different tray containing media of the same size and type, if the specified tray runs out of media.</p> <p>When set to OFF, the printer stops and displays a message indicating that media should be loaded into the specified tray if the specified tray runs out of media.</p>	

ENGINE SERVICE	Use this submenu to view information related to the engine.	
	TOTAL FACE COUNT	The number of page faces that have been printed to date.
	COLOR FACE COUNT	The number of color page faces that have been printed to date.
	BW FACE COUNT	The number of monochrome page faces that have been printed to date.
	CONTROLLER VER.	The current controller firmware version.
	ENGINE VER.	The printer engine firmware version.
	COLOR CALIBRATION	Performs color calibrations in order to adjust the color shift.
	RESET COUNTER TRANSFER ROLLER	Resets the counter when the transfer roller has been replaced.
	RESET COUNTER TRANSFER BELT	Resets the counter when the transfer belt unit has been replaced.
	ENERGY SAVER	<div>Settings ON / OFF</div> <div>When set to ON, Energy Saver is enabled.</div> <div>When set to OFF, Energy Saver is disabled and the ENGINE/ENERGY SAVER menu is not displayed.</div>
	RESTORE USER DEFAULT	Resets the ENERGY SAVER , AUTO CONTINUE and TRAY CHAINING menus to the factory defaults. In addition, the PageScope Web Connection administrator password is reset to the default password. For details of the PageScope Web Connection administrator password, refer to the magicolor 5440 DL Reference Guide.

Network Menu

If the printer is connected to a network, the following settings should be specified. For details about each setting, contact your network administrator.



All factory default values are shown in bold.

DHCP	Settings	DHCP SET:ON BOOTP SET:OFF
		DHCP SET:OFF BOOTP SET:ON
		DHCP SET:OFF BOOTP SET:OFF
	If there is a DHCP server on the network, specifies whether the IP address is automatically assigned by the DHCP server and other network information is loaded.	
BOOTP	Specifies whether the IP address is automatically assigned by BOOTP and other network information is loaded.	
IP ADDRESS	Setting	192 . 168 . 1 . 2
	Sets the IP address of this printer on the network. Use the Up, Down, Left, and Right keys to enter the value. When manually setting the IP address, first set DHCP and BOOTP to OFF.	
SUBNET MASK	Setting	255 . 255 . 255 . 0
	Sets the subnet mask value of the network. Use the Up, Down, Left, and Right keys to enter the value. When manually setting the Subnet Mask, first set DHCP and BOOTP to OFF.	
GATEWAY	Setting	192 . 168 . 1 . 1
	If a router is used on the network, enter the IP address of the router. Use the Up, Down, Left, and Right keys to enter the value. When manually setting the Gateway, first set DHCP and BOOTP to OFF.	
MAC ADDRESS	Displays the Ethernet hardware address for this printer. (It cannot be changed.)	
HTTP	Settings	ON / OFF
	HTTP can be set to ON or OFF. ON enables the Internal Web Page inside the printer, OFF disables it.	

SNMP	Settings	ON / OFF
	SNMP is a scalable, distributed management suited for managing small to large size networks. SNMP can be set to ON or OFF.	
FORCED MODES	Settings	AUTO/AUTO/ON / AUTO/FULL/ON / AUTO/HALF/ON / 100M/AUTO/ON / 100M/FULL/ON / 100M/FULL/OFF / 100M/HALF/ON / 100M/HALF/OFF / 10M/AUTO/ON / 10M/FULL/ON / 10M/FULL/OFF / 10M/HALF/ON / 10M/HALF/OFF
	<ul style="list-style-type: none"> ■ The first value indicates the network transmission speed (SPEED). Select from a 10Base-T connection (10M), 100Base-TX connection (100M), or automatic recognition (AUTO). If AUTO is selected, the transmission speed is set depending on the negotiation; therefore, there is no setting where negotiation is turned off. ■ The second value indicates the communication method for bi-directional communication (DUP). Select whether data is sent and received in both directions simultaneously (FULL) or in one direction at a time (HALF), or select automatic recognition (AUTO). If AUTO is selected, the transmission speed is set depending on the negotiation; therefore, there is no setting where negotiation is turned off. ■ The third value indicates the negotiation (NEG.) setting (mutually sends and receives information such as the transmission speed and determines the transmission setting). When set to ON, negotiation is performed. When set to OFF, negotiation is not performed. 	

Consumable Usage Menu

BLACK TONER	The approximate percentage of toner remaining in the black toner cartridge.
CYAN TONER	The approximate percentage of toner remaining in the cyan toner cartridge.
YELLOW TONER	The approximate percentage of toner remaining in the yellow toner cartridge.
MAGENTA TONER	The approximate percentage of toner remaining in the magenta toner cartridge.

Direct Print Menu

These settings are overridden by any settings configured within the digital camera.

For details on direct printing, refer to “Direct Print” on page 33.



When using direct printing, the optional Camera Direct Photo Print Card must be installed. For details on installing the Camera Direct Photo Print Card, refer to the Installation Manual included with the Camera Direct Photo Print Card. To purchase the Camera Direct Photo Print Card, contact your local vendor or visit printer.konicaminolta.com.



All factory default values are shown in bold.

IMAGE QUALITY	Settings	DRAFT / NORMAL / FINE
	Specifies the resolution of the printed image. There are three settings: DRAFT (600 × 600 dpi), NORMAL (1200 × 600 dpi), and FINE (2400 × 600 dpi). FINE (2400 × 600 dpi) is available if additional memory of 64 MB or more is installed.	
PAPER SIZE	Settings	LETTER / A4 / A5 / STATEMENT / J-POSTCARD / LTR 2UP SPL / A4 4UP SPL
	Specifies the media size on which the image will be printed. LETTER is the default setting for the Americas, and A4 is the default setting for all other regions. With the selection of either of the SPL settings, the MEDIA TYPE = GLOSSY and LAYOUT = n-UP will be overridden.	

MEDIA TYPE	Settings	PLAIN PAPER / THICK STOCK1/ THICK STOCK2/ GLOSSY / POST- CARD / LABELS
	Specifies the media type on which the image will be printed.	
LAYOUT	Settings	1-UP / 2-UP / 3-UP / 4-UP / 6-UP / 8-UP
	<p>Specifies the number of images to be printed on a single sheet of paper.</p> <p>When set to 1-UP, only one image will be printed on a single sheet of paper.</p>	
BRIGHT- NESS	Settings	OFF / ON
	<p>Changes the density of colors.</p> <p>When set to ON, images are printed even brighter.</p>	
SHARP- NESS	Settings	OFF / ON
	<p>Changes the vividness of intermediate colors.</p> <p>When set to ON, intermediate colors in images are printed more vividly.</p>	
AUTO ROTATE	Settings	OFF / ON
	<p>Prints with the image rotated so that it fits the size of the paper.</p> <p>When set to ON, the image is rotated 90 degrees clockwise before it is printed.</p> <p>These settings are available only when LAYOUT is set to 1-UP or 4-UP.</p>	

Direct Print

5

Direct Printing

If a digital camera with PictBridge (1.0 or later) is connected to the printer through a USB connection, images stored on the digital camera can be printed directly from the printer.



When using direct printing, the optional Camera Direct Photo Print Card must be installed. For details on installing the Camera Direct Photo Print Card, refer to the Installation Manual included with the Camera Direct Photo Print Card. To purchase the Camera Direct Photo Print Card, contact your local vendor or visit printer.konicaminolta.com.



FINE (2400 × 600 dpi) is available if additional memory of 64 MB or more is installed.



If additional memory of 64 MB or more is not installed, Image Quality and All images Index Print cannot be selected from the digital camera. For details on using the digital camera, refer to your digital camera's manual.



The following features are not supported with Direct Printing.

- Cropping print
- Fixed size print
- Borderless
- DPOF print

Printing Directly from a Digital Camera

- 1 From the printer's Direct Print menu, specify settings for Image Quality, Paper Size, Media Type, Layout, Brightness, Sharpness and Auto Rotate.



The Media Type setting can only be specified from the printer's Direct Print menu. Media Type cannot be selected from the digital camera.

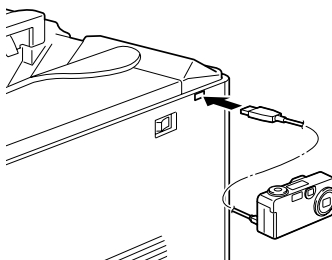


If these settings, except for Media Type, can be specified from the digital camera, they do not need to be specified from the control panel. These settings are overridden by settings configured within the digital camera. For details on control panel settings, refer to "Direct Print Menu" on page 31.

- 2 Connect the USB cable to the digital camera and to the direct print port.



A USB cable is not included with the printer and must be purchased separately, if not supplied with your digital camera.



- 3 From the digital camera, specify the image that you wish to print and the desired number of copies.
- 4 Start printing from the digital camera.

Using Media

6

Media Specifications

What types and sizes of media can I load?

Media	Media Size		Tray*	Duplex
	Inch	Millimeter		
A4	8.2 x 11.7	210.0 x 297.0	1/2/3/M	Yes
A5	5.9 x 8.3	148.0 x 210.0	M	No
B5 (JIS)	7.2 x 10.1	182.0 x 257.0	2/3/M	Yes
Executive	7.25 x 10.5	184.0 x 267.0	2/3/M	Yes
Folio	8.3 x 13.0	210.0 x 330.0	2/3/M	Yes
Foolscap	8.0 x 13.0	203.2 x 330.2	2/3/M	Yes
Kai 16	7.3 x 10.2	185.0 x 260.0	M	Yes
Kai 32	5.1 x 7.3	130.0 x 185.0	M	No
16 K	7.7 x 10.6	195.0 x 270.0	M	Yes
Legal	8.5 x 14.0	215.9 x 355.6	2/3/M	Yes
Government Legal	8.5 x 13.0	216.0 x 330.0	2/3/M	Yes
Letter	8.5 x 11.0	215.9 x 279.4	1/2/3/M	Yes
Letter Plus	8.5 x 12.7	215.9 x 322.3	2/3/M	Yes
Government letter	8.0 x 10.5	203.2 x 266.7	2/3/M	Yes
Statement	5.5 x 8.5	140.0 x 216.0	M	No
UK Quarto	8.0 x 10.0	203.2 x 254.0	M	No
A4 Transparency	8.2 x 11.7	210.0 x 297.0	M	No
Letter Transparency	8.5 x 11.0	215.9 x 279.4	M	No
Japanese Postcard	3.9 x 5.8	100.0 x 148.0	M	No
Double Postcard	5.8 x 7.9	148.0 x 200.0	M	No
Envelope B5 (ISO)	6.9 x 9.8	176.0 x 250.0	M	No
Envelope C5	6.4 x 9.0	162.0 x 229.0	M	No
Envelope C6	4.5 x 6.4	114.0 x 162.0	M	No
Envelope #10	4.125 x 9.5	104.7 x 241.3	M	No
Envelope DL	4.3 x 8.7	110.0 x 220.0	M	No
Envelope Monarch	3.875 x 7.5	98.4 x 190.5	M	No
Envelope Chou #3	4.7 x 9.2	120.0 x 235.0	M	No
Envelope Chou #4	3.5 x 8.1	90.0 x 205.0	M	No
Envelope You #4	4.1 x 9.3	105.0 x 235.0	M	No
Thick Stock 1, 2, Glossy Stock—Only supported for letter, A4, or smaller media.				
Custom, Minimum	3.6 x 5.9	92.0 x 148.0	M	No
Custom, Maximum	8.5 x 14.0	216.0 x 356.0	M	Yes
Notes: *Tray 2/3 = Lower feeder units (optional) M = Manual feed tray				



For custom sizes, use the printer driver to specify the settings within the ranges shown in the above table.

Media Types

Before purchasing a large quantity of special media, do a trial print with the same media and check the print quality.

Keep media on a flat, level surface in its original wrapper until it is time to load it. For a list of approved media, refer to printer.konicaminolta.com.

Plain Paper (Recycled Paper)

Capacity	Tray 1/2/3	Up to 500 sheets, depending on the paper weight.
	Manual Feed Tray	Up to 100 sheets, depending on the paper weight.
Orientation	Tray 1/2/3	Face up
	Manual Feed Tray	Face down
Driver Media Type	Plain paper (Recycled paper)	
Weight	60–90 g/m ² (16–24 lb bond)	
Duplexing	See page 38 for supported sizes.	

Use media that is


Suitable for plain paper laser printers, such as standard or recycled office paper.

Note

Do not use the media types listed below. These could cause poor print quality, media misfeeds, or damage to the printer.

DO NOT use media that is

- Coated with a processed surface (such as carbon paper, digitally gloss-coated media, and colored paper that has been treated)
- Carbon backed
- Unapproved iron-on transfer media (such as heat-sensitive paper, heat-pressure paper, and heat-press transfer paper)
- Cold-water-transfer paper
- Pressure sensitive
- Designed specifically for inkjet printers (such as superfine paper, glossy paper, glossy film, and postcards)
- Already printed on by another printer, copier, or fax machine

- Dusty
- Wet (or damp)
- 
 Keep media between 35% and 85% relative humidity. Toner does not adhere well to moist or wet paper.
- Layered
- Adhesive
- Folded, creased, curled, embossed, warped, or wrinkled
- Perforated, three-hole punched, or torn
- Too slick, too coarse, or too textured
- Different in texture (roughness) on the front and back
- Too thin or too thick
- Stuck together with static electricity
- Composed of foil or gilt; too luminous
- Heat sensitive or cannot withstand the fusing temperature (180°C [356°F])
- Irregularly shaped (not rectangular or not cut at right angles)
- Attached with glue, tape, paper clips, staples, ribbons, hooks, or buttons
- Acidic
- Any other media that is not approved

Thick Stock

Paper thicker than 90 g/m² (24 lb bond) is referred to as thick stock. Test all thick stock to ensure acceptable performance and to ensure that the image does not shift.

Capacity	Tray 1/2/3	Not supported
	Manual Feed Tray	Up to 20 thick stock sheets, depending on their thickness.
Orientation	Face down	
Driver	Thick stock 1 (91-150 g/m ²)	
Media Type	Thick stock 2 (151-210 g/m ²)	
Weight	91–210 g/m ² (25–55.9 lb bond)	
Duplexing	Not supported	

DO NOT use thick stock that is

- Mixed with any other media in the manual feed tray (as this will cause printer misfeeding)

Envelopes

Print on the front (address) side only. Some parts of the envelope consist of three layers of paper—the front, back, and flap. Anything printed in these layered regions may be lost or faded.

Capacity	Tray 1/2/3	Not supported
	Manual Feed Tray	Up to 10 envelopes, depending on their thickness
Orientation	Face down	
Driver Media Type	Envelope	
Weight	91–163 g/m ² (25–43 lb bond)	
Duplexing	Not supported	

Use envelopes that are

- Common office envelopes approved for laser printing with diagonal joints, sharp folds and edges, and ordinary gummed flaps



Because the envelopes pass through heated rollers, the gummed area on the flaps may seal. Using envelopes with emulsion-based glue avoids this problem.

- Approved for laser printing
- Dry

DO NOT use envelopes that have

- Sticky flaps
- Tape seals, metal clasps, paper clips, fasteners, or peel-off strips for sealing
- Transparent windows
- Too rough of a surface
- Material that will melt, vaporize, offset, discolor, or emit dangerous fumes
- Been presealed

Labels

A sheet of labels consists of a face sheet (the printing surface), adhesive, and a carrier sheet:

- The face sheet must follow the plain paper specification.
- The face sheet surface must cover the entire carrier sheet, and no adhesive should come through on the surface.

You can print continuously with label sheets. However, this could affect the media feed, depending on the media quality and printing environment. If problems occur, stop the continuous printing and print one sheet at a time.

Try printing your data on a sheet of plain paper first to check placement. Check your application documentation for more information on printing labels.

Capacity	Tray 1/2/3	Not supported
	Manual Feed Tray	Up to 20 label sheets, depending on their thickness
Orientation	Face down	
Driver Media Type	Labels	
Weight	60–163 g/m ² (16–43 lb bond)	
Duplexing	Not supported	

Use label sheets that are

- Recommended for laser printers
- Letter or A4 size (adhesive label stock)

DO NOT use label sheets that

- Have labels that easily peel off or have parts of the label already removed
- Have backing sheets that have peeled away or have exposed adhesive

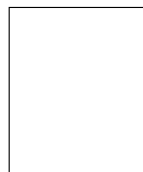
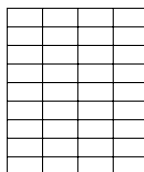
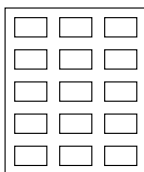
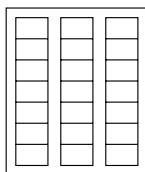


Labels may stick to the fuser, causing them to peel off and media misfeeds to occur.

- Are precut or perforated

Do not use

OK to use



Shiny backed paper

Full-page labels
(uncut)

Letterhead

Try printing your data on a sheet of plain paper first to check placement.

Capacity	Tray 1/2/3	Not supported
	Manual Feed Tray	Up to 20 sheets, depending on their size and thickness
Orientation	Face down	
Driver Media Type	Letterhead	
Weight	60–90 g/m ² (16–24 lb)	
Duplexing	See page 38 for supported sizes (face down—top of page first).	

Postcards

Try printing your data on a sheet of plain paper first to check placement.

Capacity	Tray 1/2/3	Not supported
	Manual Feed Tray	Up to 20 postcards, depending on their thickness
Orientation	Face down	
Driver Media Type	Postcard	
Weight	60–163 g/m ² (16–90 lb bond)	
Duplexing	Not supported	

Use postcards that are

- Approved for laser printers

DO NOT use postcards that are

- Coated
- Designed for inkjet printers
- Precut or perforated
- Preprinted or multicolored



If the postcard is warped, press on the warped area before putting it in the manual feed tray.



Transparencies



Do not fan transparencies before loading them. Resulting static electricity may cause printing errors.



If you touch the face of the transparencies with your bare hands, print quality may be affected.



Keep the printer path clean. Transparencies are especially sensitive to a dirty media path. If there are shadows on either the top or the bottom of the sheets, see chapter 8, “Maintaining the Printer”.



Remove transparencies as soon as possible from the output tray to avoid static buildup.

You can print continuously with transparencies. However, this could affect the media feed, depending on the media quality, static buildup, and printing environment.

Try printing your data on a sheet of plain paper first to check placement.



If you have problems feeding 20 sheets, try loading only 1–10 sheets at a time. Loading a large number of transparencies at one time may cause static buildup, thus causing feeding problems.

Capacity	Tray 1/2/3	Not supported
	Manual Feed Tray	Up to 20 transparencies, depending on their thickness
Orientation	Face down	
Driver Media Type	Transparency	
Duplexing	Not supported	



Always first test a small quantity of a particular type of transparency.

Use transparencies that are

- Approved for laser printing

DO NOT use transparencies that

- Have static electricity that will cause them to stick together
- Are specified for inkjet printers only

Glossy Stock

Test all glossy stock to ensure acceptable performance and to ensure that the image does not shift.

Capacity	Tray 1/2/3	Not supported
	Manual Feed Tray	Up to 20 glossy stock sheets, depending on their thickness.
Orientation	Face down	
Driver Media Type	Glossy	
Weight	91–210 g/m ² (25–55.9 lb bond)	
Duplexing	Not supported	

DO NOT use glossy stock that is

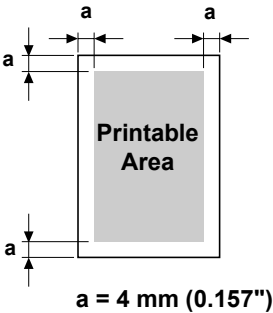
- Mixed with any other media in the manual feed tray (as this will cause printer misfeeding)

What Is the Guaranteed Imageable (Printable) Area?

The printable area on all media sizes is up to 4 mm (0.157") from the edges of the media.

Each media size has a specific imageable area, the maximum area on which the printer can print clearly and without distortion.

This area is subject to both hardware limits (the physical media size and the margins required by the printer) and software constraints (the amount of memory available for the full-page frame buffer). The guaranteed imageable (printable) area for all media sizes is the page size minus 4 mm (0.157") from all edges of the media.

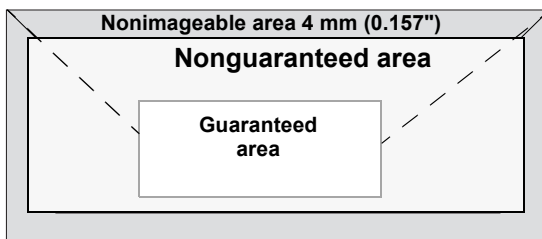


Imageable Area—Envelopes

Envelopes have a nonguaranteed imageable area that varies with envelope type.



The envelope print orientation is determined by your application.



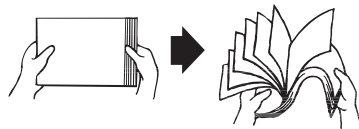
Page Margins

Margins are set through your application. Some applications allow you to set custom page sizes and margins while others have only standard page sizes and margins from which to choose. If you choose a standard format, you may lose part of your image (due to imageable area constraints). If you can custom-size your page in your application, use those sizes given for the imageable area for optimum results.

Loading Media

How do I load media?

Take off the top and bottom sheets of a ream of paper. Holding a stack of approximately 100 sheets at a time, fan the stack to prevent static buildup before inserting it in a tray.



Do not fan transparencies.

Note

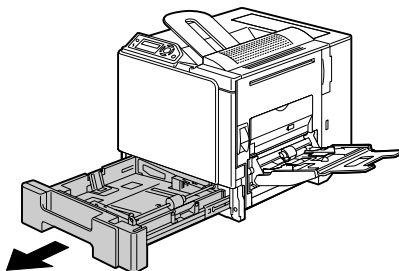
Although this printer was designed for printing on a wide range of media types, it is not intended to print exclusively on a single media type except plain paper. Continuous printing on media other than plain paper (such as envelopes, labels, thick stock, or transparencies) may adversely affect print quality or reduce engine life.

When refilling media, first remove any media remaining in the tray. Stack it with the new media, even the edges, then reload it.

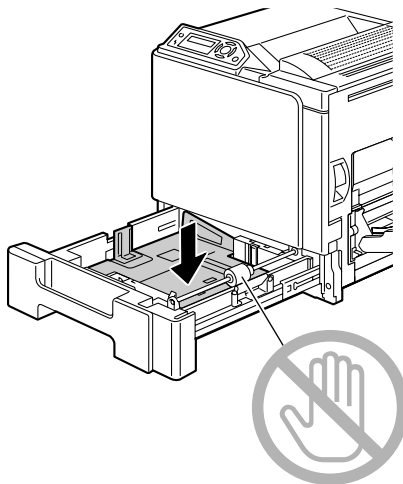
Tray 1

Loading Plain Paper

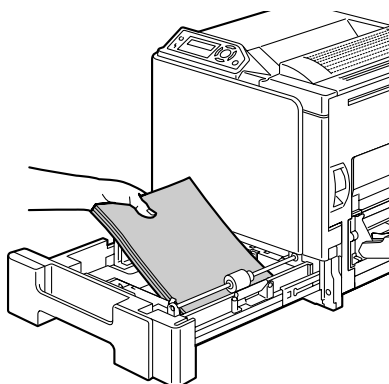
- 1 Pull out Tray 1.



- 2** Press down the media pressure plate to lock it into place.

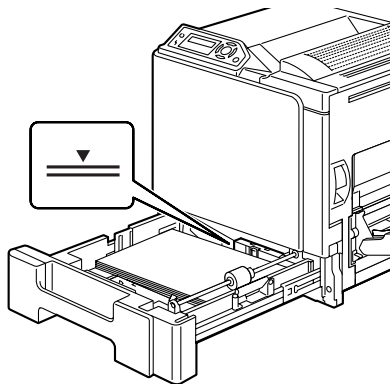


- 3** Load the paper face up in the tray.

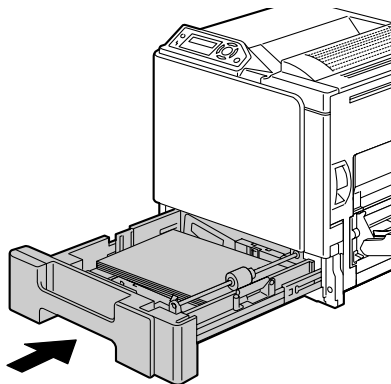




Do not load above the ▼ mark. Up to 500 sheets (80 g/m² [22 lb]) of plain paper can be loaded into the tray at one time.



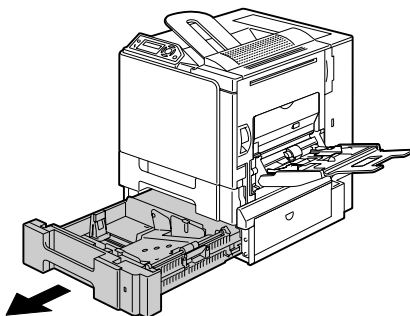
4 Close Tray 1.



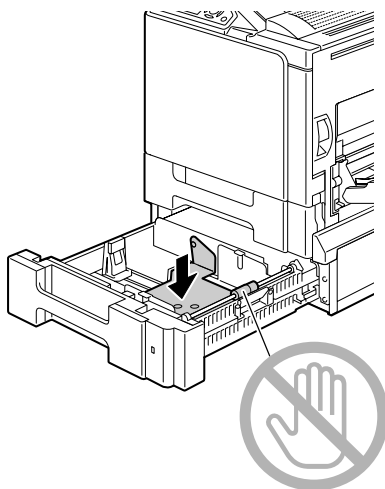
Tray 2/3 (Optional Lower Feeder Units)

Loading Plain Paper

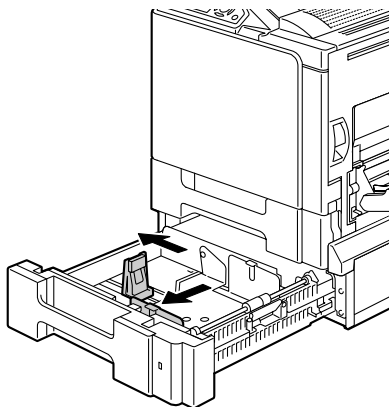
- 1 Pull out Tray 2 (Tray 3).



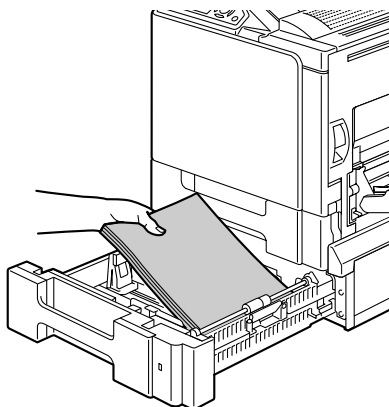
- 2 Press down the media pressure plate to lock it into place.



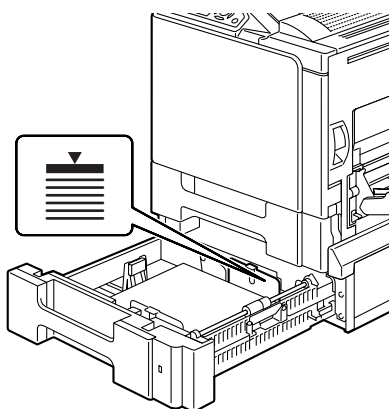
- 3 Slide the media guides to provide more space between them.



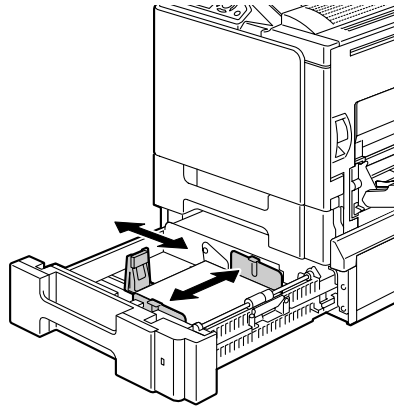
- 4 Load the paper face up in the tray.



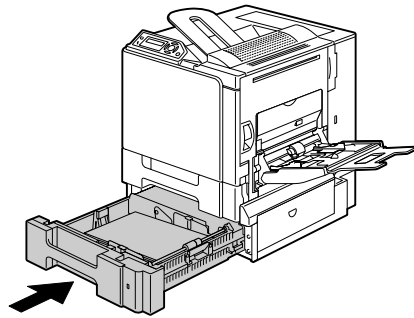
Do not load above the ▼ mark. Up to 500 sheets (80 g/m² [22 lb]) of plain paper can be loaded into the tray at one time.



- 5 Slide the media guides against the edges of the paper.



- 6 Close Tray 2 (Tray 3).

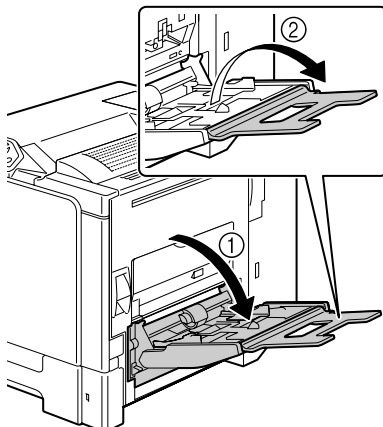


Manual Feed Tray

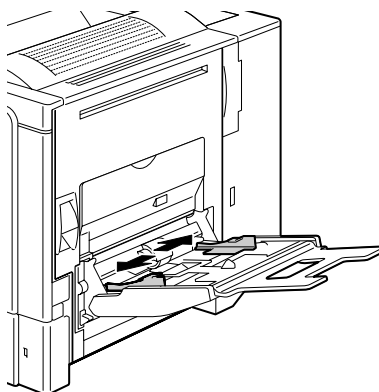
For details on the types and sizes of media that can be printed from the manual feed tray, refer to “Media Specifications” on page 38.

Loading Plain Paper

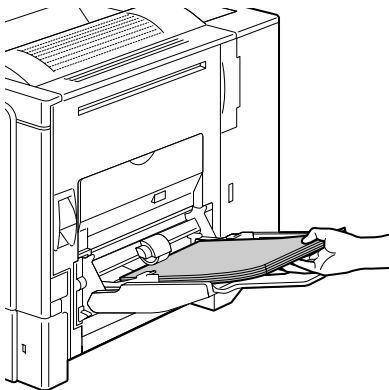
- 1 Open the manual feed tray.



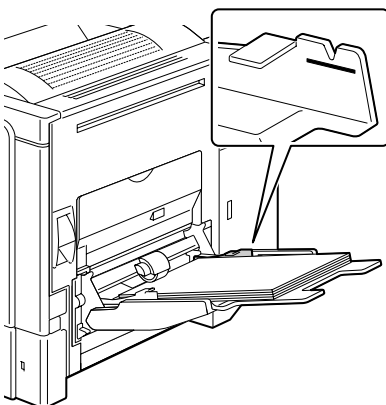
- 2 Slide the media guides to provide more space between them.



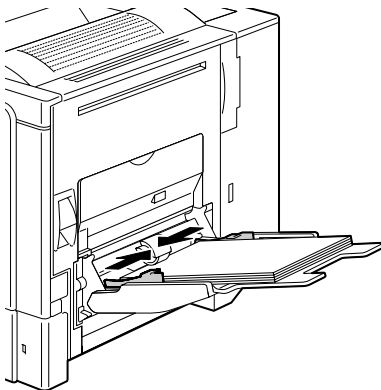
- 3** Load the paper face down in the tray.



Do not load paper above the line. Up to 100 sheets (80 g/m² [22 lb]) of plain paper can be loaded into the tray at one time.



- 4** Slide the media guides against the edges of the paper.



Other Media

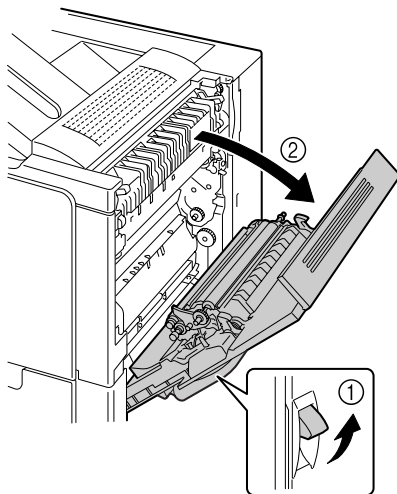
When loading media other than plain paper, set the media mode (Envelope, Label, Thick Stock 1, Thick Stock 2, Glossy or Transparency) in the driver for optimum print quality.

Loading Envelopes

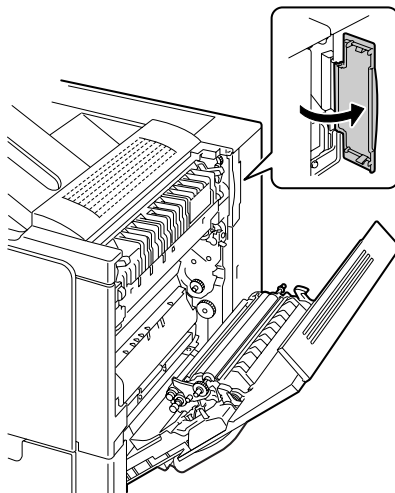
- 1 Pull the lever, and then open the right side cover.



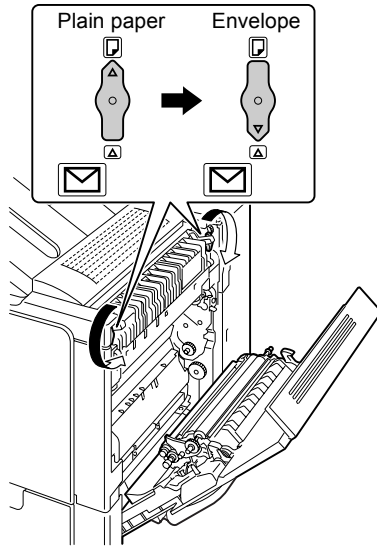
Before opening the right side cover, fold up the manual feed tray.



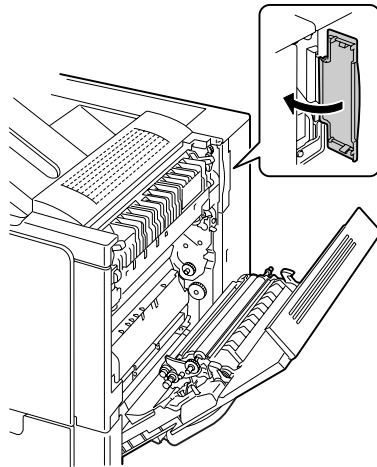
- 2 Open the door at the side of the right side cover.



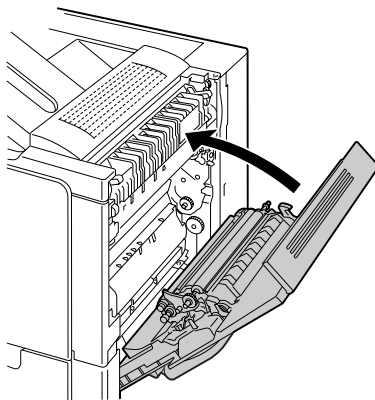
- 3** Turn the two dials on the fuser unit to the setting for envelopes.



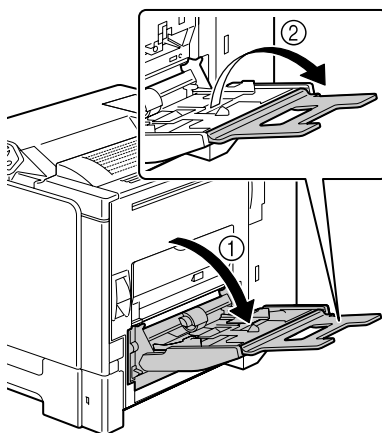
- 4** Close the door at the side of the right side cover.



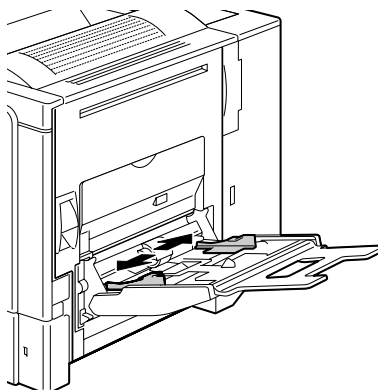
- 5 Close the right side cover.



- 6 Open the manual feed tray.



- 7 Slide the media guides to provide more space between them.



8 Load the envelopes flap side up in the tray.



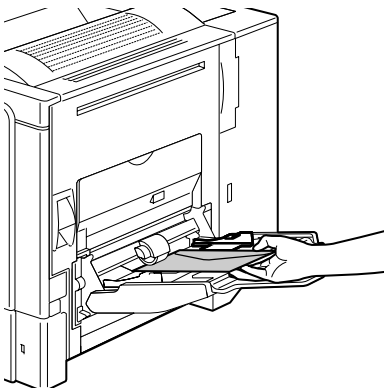
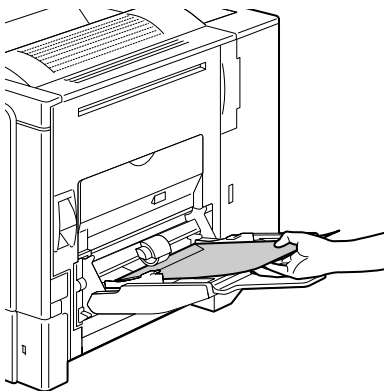
Before loading envelopes, press them down to make sure that all air is removed, and make sure that the folds of the flaps are firmly pressed, otherwise the envelopes may become wrinkled or a media misfeed may occur.



Up to 10 envelopes can be loaded into the tray at one time.



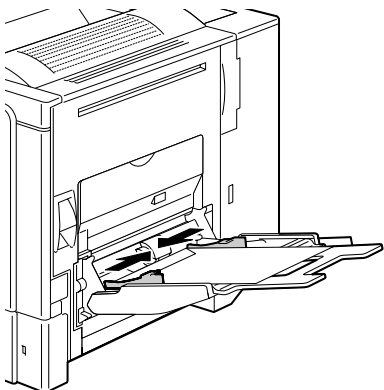
For envelopes with the flap along the long edge, load the envelopes with the flap toward the right of the manual feed tray.



9 Slide the media guides against the edges of the envelopes.

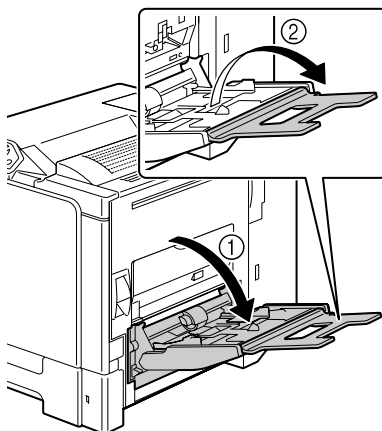


Before printing on plain paper, be sure to return the dials on the fuser unit to the setting for plain paper.

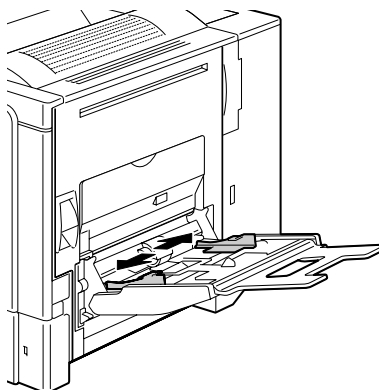


Loading Label Sheets/Postcards/Thick Stock/Glossy Stock and Transparencies

- 1 Open the manual feed tray.



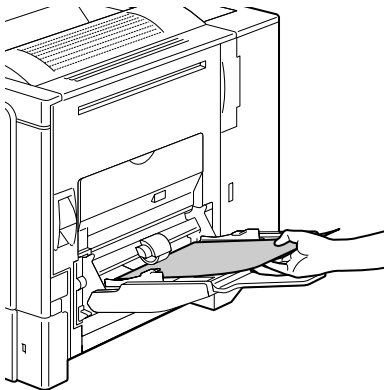
- 2 Slide the media guides to provide more space between them.



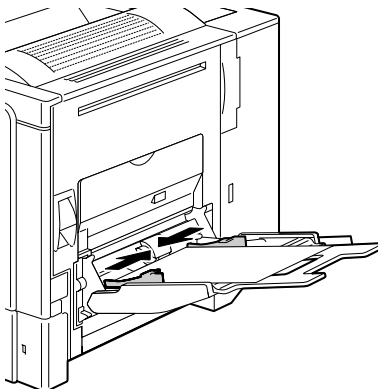
- 3** Load the media face down in the tray.



Up to 20 sheets can be loaded into the tray at one time.



- 4** Slide the media guides against the edges of the media.



Duplexing

Select paper with high opacity for duplex (2-sided) printing. Opacity refers to how effectively paper blocks out what is written on the opposite side of the page. If the paper has low opacity (high translucency), then the printed data from one side of the page will show through to the other side. Check your application for margin information. For best results, print a small quantity to make sure the opacity is acceptable.

Duplex (2-sided) printing can be done manually or can be done automatically with the duplex option installed and selected.

Note

Only plain paper, 60–90 g/m² (16–24 lb bond) can be autoduplexed. See “Media Specifications” on page 38.

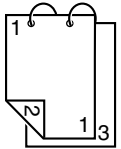
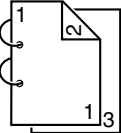
Duplexing envelopes, labels, postcards, thick stock, glossy stock or transparencies is not supported.

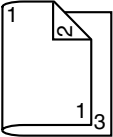
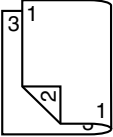
How do I autoduplex?

You should verify that the duplex option is physically installed on the printer to successfully duplex the job. If the duplex option is not installed and duplex job is sent, the control panel will display `DUPLEX OPTION NOT ATTACHED`.

Check your application to determine how to set your margins for duplex printing.

The following Duplex/Booklet settings are available.

 A diagram showing a sheet of paper with three numbered sections: '1' at the top, '2' at the bottom, and '3' on the right side. A curved arrow indicates the paper is folded over from the top edge.	If “Short Edge Binding” is selected, the pages will be laid out to flip at the top.
 A diagram showing a sheet of paper with three numbered sections: '1' on the left, '2' at the top, and '3' at the bottom. A curved arrow indicates the paper is folded over from the left edge.	If “Long Edge Binding” is selected, the pages will be laid out to flip at the side.

	<p>If “Booklet Left Binding” is selected, the pages can be folded as a left-bound booklet.</p>
	<p>If “Booklet Right Binding” is selected, the pages can be folded as a right-bound booklet.</p>

- 1 Load plain paper into the tray.
- 2 From the printer driver, specify the layout for duplex printing.
- 3 Click **OK**.



With autoduplexing, the back side is printed first, and then the front side is printed.

Output Tray

All printed media is output to the face-down output tray on top of the printer. This tray has a capacity of approximately 250 sheets (A4/Letter) of 80 g/m² (22 lb) paper.



If the media is stacked too high in the output tray, your printer may experience media misfeeds, excessive media curl, or static buildup.



Remove transparencies as soon as possible from the output tray to avoid static buildup.

Media Storage

How do I store media?

- Keep media on a flat, level surface in its original wrapper until it is time to load it.

Media that has been stored for a long time out of its packaging may dry up too much and cause misfeeding.

- If media has been removed from its wrapper, place it in its original packaging and store in a cool, dark place on a level surface.
- Avoid moisture, excessive humidity, direct sunlight, excessive heat (above 35°C [95°F]), and dust.
- Avoid leaning media against other objects or placing it in an upright position.

Before using stored media, do a trial print to check print quality.

Replacing Consumables

7

Replacing Consumables

Note

Failure to follow instructions as outlined in this manual could result in voiding your warranty.

Note

If an error message (TONER EMPTY, TRANSFER END, etc.) appears, print out the configuration page, and then check the status of the other consumables. For details on the error messages, refer to “Error Messages (Warning)” on page 128. For details on printing the configuration page, refer to “Printing the Configuration Page” on page 96.

About Toner Cartridges

Your printer uses four toner cartridges: black, yellow, magenta, and cyan. Handle the toner cartridges carefully to avoid spilling toner inside the printer or on yourself.



Install only new toner cartridges in your printer. If a used toner cartridge is installed, the indicator message will not clear and the supplies status in the Status Display will not be updated.



The toner is nontoxic. If you get toner on your skin, wash it off with cool water and a mild soap. If you get toner on your clothes, lightly dust them off as best as you can. If some toner remains on your clothes, use cool, not hot water, to rinse the toner off.



CAUTION

If you get toner in your eyes, wash it out immediately with cool water and consult a doctor.



*Refer to the following URL for recycling information.
US: <http://printer.konicaminolta.net/products/recycle/index.asp>
Europe: printer.konicaminolta.com*

Note

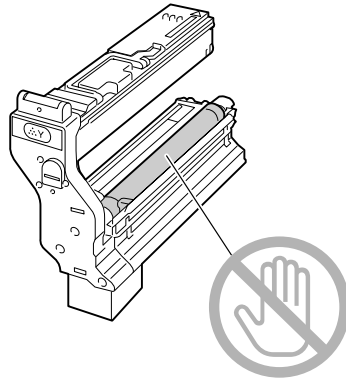
Do not use refilled toner cartridges or unapproved toner cartridges. Any damage to the printer or quality problems caused by a refilled toner cartridge or an unapproved toner cartridge will void your warranty. No technical support is provided to recover from these problems.

When replacing a toner cartridge, refer to the following table. For optimum print quality and performance, use only approved KONICA MINOLTA toner cartridges for your specific printer type, as listed in the table below. You can find your printer type and the toner cartridge part numbers on the consumables reorder label inside the front cover your printer.

Printer Type	Printer Parts Number	Toner Cartridge Type	Toner Cartridge Parts Number
AM	5250224-100	Standard-Capacity Toner Cartridge -Black (K)	1710580-001
		Standard-Capacity Toner Cartridge -Yellow (Y)	1710580-002
		Standard-Capacity Toner Cartridge -Magenta (M)	1710580-003
		Standard-Capacity Toner Cartridge -Cyan (C)	1710580-004
		High-Capacity Toner Cartridge -Black (K)	1710602-005
		High-Capacity Toner Cartridge -Yellow (Y)	1710602-006
		High-Capacity Toner Cartridge -Magenta (M)	1710602-007
		High-Capacity Toner Cartridge -Cyan (C)	1710602-008
EU	5250224-200 5250218-400	Standard-Capacity Toner Cartridge -Black (K)	1710604-001
		Standard-Capacity Toner Cartridge -Yellow (Y)	1710604-002
		Standard-Capacity Toner Cartridge -Magenta (M)	1710604-003
		Standard-Capacity Toner Cartridge -Cyan (C)	1710604-004
		High-Capacity Toner Cartridge -Black (K)	1710604-005
		High-Capacity Toner Cartridge -Yellow (Y)	1710604-006
		High-Capacity Toner Cartridge -Magenta (M)	1710604-007
		High-Capacity Toner Cartridge -Cyan (C)	1710604-008
AP	5250224-350	Standard-Capacity Toner Cartridge -Black (K)	1710583-001
		Standard-Capacity Toner Cartridge -Yellow (Y)	1710583-002
		Standard-Capacity Toner Cartridge -Magenta (M)	1710583-003
		Standard-Capacity Toner Cartridge -Cyan (C)	1710583-004
		High-Capacity Toner Cartridge -Black (K)	1710605-005
		High-Capacity Toner Cartridge -Yellow (Y)	1710605-006
		High-Capacity Toner Cartridge -Magenta (M)	1710605-007
		High-Capacity Toner Cartridge -Cyan (C)	1710605-008
JP	5250224-300	Standard-Capacity Toner Cartridge -Black (K)	1710581-001
		Standard-Capacity Toner Cartridge -Yellow (Y)	1710581-002
		Standard-Capacity Toner Cartridge -Magenta (M)	1710581-003
		Standard-Capacity Toner Cartridge -Cyan (C)	1710581-004
		High-Capacity Toner Cartridge -Black (K)	1710603-005
		High-Capacity Toner Cartridge -Yellow (Y)	1710603-006
		High-Capacity Toner Cartridge -Magenta (M)	1710603-007
		High-Capacity Toner Cartridge -Cyan (C)	1710603-008

Note

Do not touch the OPC drum surface. This could lower image quality.



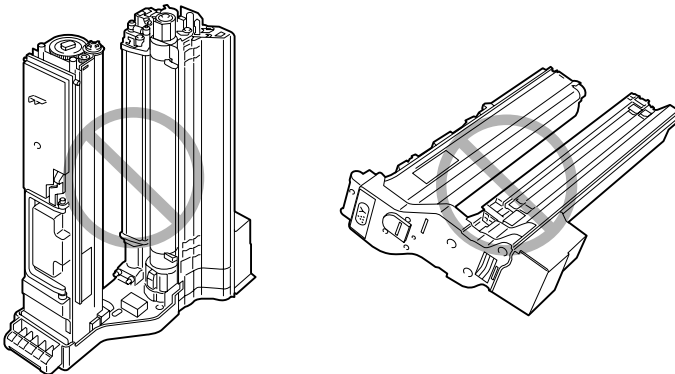
Keep toner cartridges:

- In their packaging until you're ready to install them.
- In a cool, dry location away from sunlight (due to heat).

The maximum storage temperature is 35° C (95° F) and the maximum storage humidity is 85% (noncondensing). If the toner cartridge is moved from a cold place to a warm, humid place, condensation may occur, degrading print quality. Allow the toner to adapt to the environment for about one hour before use.

- Level during handling storage.

Do not hold, stand or store cartridges on their ends or turn them upside down; the toner inside the cartridges may become caked or unequally distributed.



- Away from salty air and corrosive gases such as aerosols.

Replacing a Toner Cartridge

Note

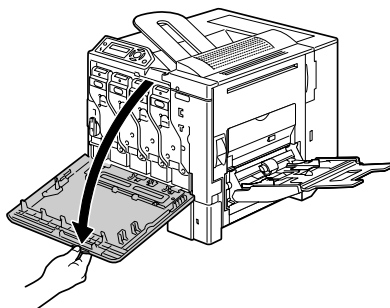
Be careful not to spill toner while replacing a toner cartridge. If toner spills, immediately wipe it off with a soft, dry cloth.

If `TONER EMPTY` on the `ENGINE/TONER EMPTY` menu is set to `STOP`, the message `REPLACE TONER X` (where “X” represents the color of the toner) appears when a toner cartridge becomes empty. Follow the steps below to replace the toner cartridge. As an example, the following procedure describes the operation for the yellow toner cartridge.

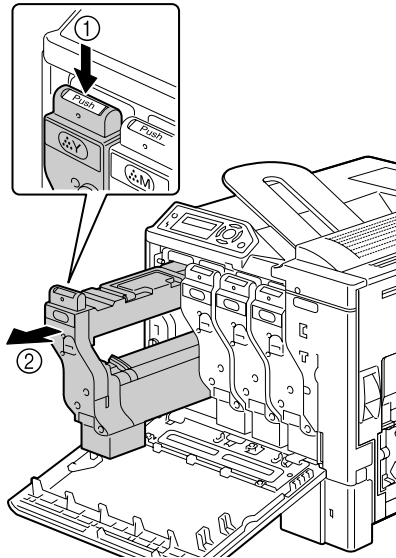


If `TONER EMPTY` on the `ENGINE/TONER EMPTY` menu is set to `CONTINUE`, the message `TONER EMPTY X` appears.

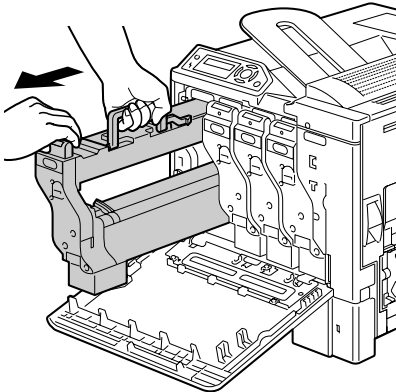
- 1 Check the message window to see which color of toner is empty.
- 2 Open the printer's front cover.



- 3** Press down the area marked “Push” on the toner cartridge to be replaced, and then slide the cartridge out until the handle is visible.



- 4** Grasp the handle as shown in the illustration, and then slide the cartridge all the way out of the printer.



Note

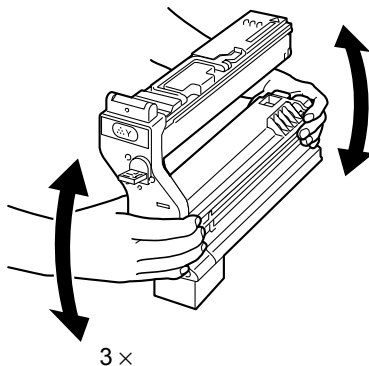
Dispose of the used toner cartridge according to your local regulations. Do not burn the toner cartridge.
For details, refer to “About Toner Cartridges” on page 66.

- 5** Check the color of the new toner cartridge to be installed.

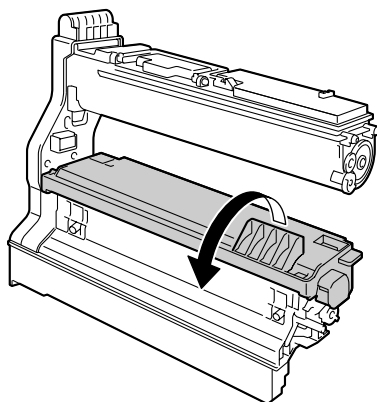
- 6 Shake the cartridge a few times to distribute the toner.



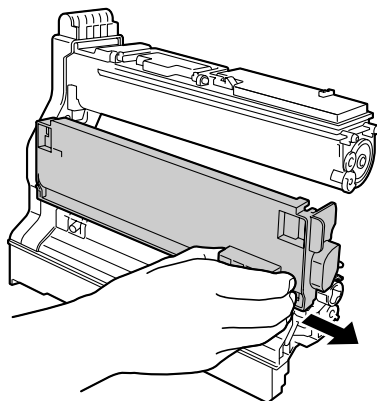
Make sure that the OPC drum cover is securely attached before shaking the cartridge.



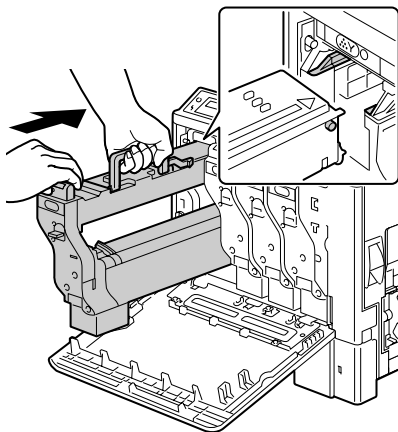
- 7 Lift the OPC drum cover on the toner cartridge toward you.



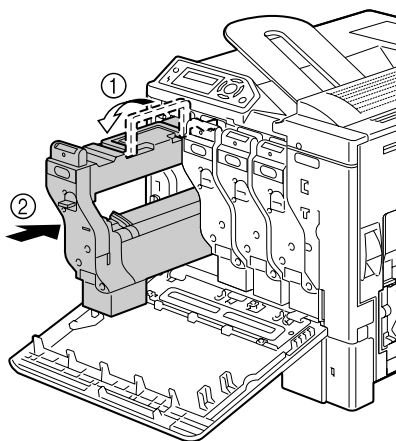
- 8 Slide the OPC drum cover off of the toner cartridge.



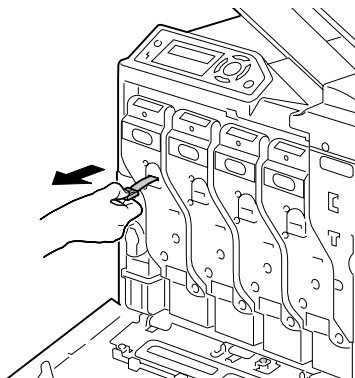
- 9 Holding the toner cartridge by its handle, slide the cartridge into the printer.



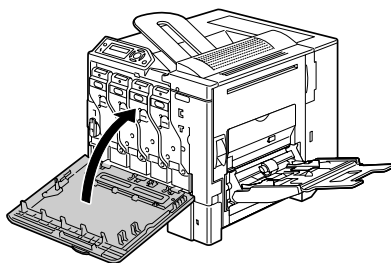
- 10 Lower the handle, and then slide the cartridge the rest of the way into the printer until it locks into place.



- 11** Remove the protective film from the toner cartridge by slowly pulling it straight out.



- 12** Close the front cover.



If the toner cartridge is not fully inserted, the front cover cannot be closed.

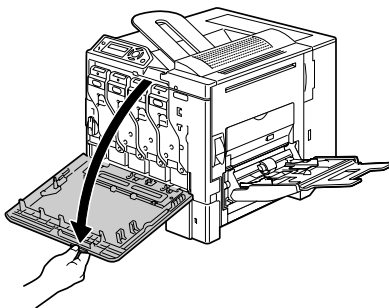


*The printer must complete a 75-second calibration cycle after the toner cartridge has been replaced. If you open the front cover before the message **READY** appears, the printer stops and repeats the calibration cycle.*

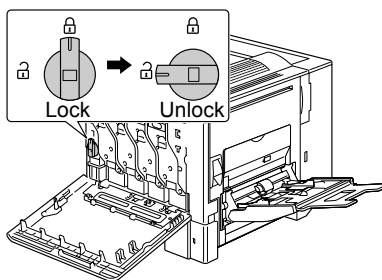
Replacing the Waste Toner Bottle

When the waste toner bottle becomes full, the message **WASTE BOTTLE FULL** appears in the message window. The printer stops and will not start again until the waste toner bottle is replaced.

- 1 Open the printer's front cover.



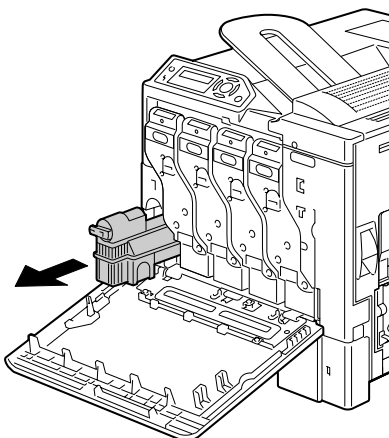
- 2 Turn the dial on the waste toner bottle counterclockwise until it is in the unlock position.



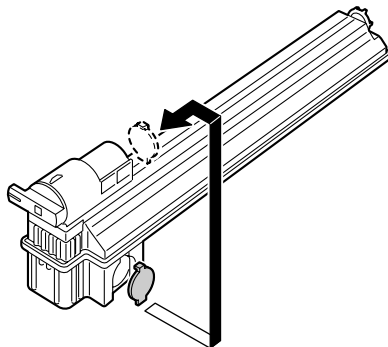
- 3 Slowly slide the waste toner bottle all the way out.



Be careful not to spill any toner.



- 4 Remove the cap attached to the side of the waste toner bottle, and then attach it at the position shown in the illustration.



- 5 Dispose of the waste toner bottle.

Note

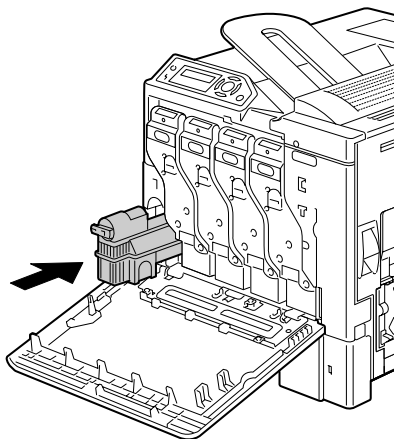
Dispose of the used waste toner bottle according to your local regulations. Do not burn the waste toner bottle.

- 6 Prepare a new waste toner bottle.

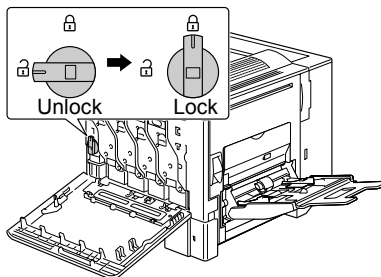


Before installing the waste toner bottle, be sure that the dial on the waste toner bottle is unlocked.

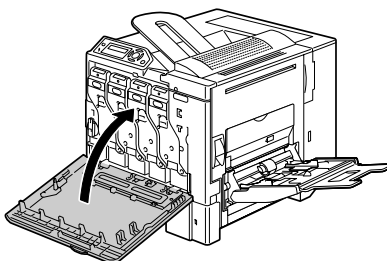
- 7 Slide the waste toner bottle all the way into the printer.



- 8 Turn the dial clockwise until the waste toner bottle is in the locked position.



- 9 Close the front cover.



If the waste toner bottle is not fully inserted or if the dial is not locked, the front cover cannot be closed.

Replacing the Transfer Roller

When the time to replace the transfer roller is reached, the message `TRANS.ROLLER END` appears. Printing can continue even after this message appears; however, since the print quality is reduced, the transfer roller should be replaced immediately.

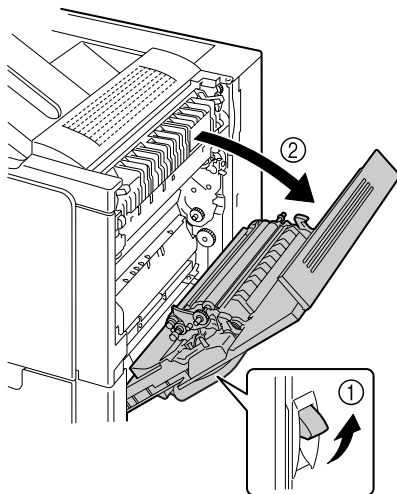
When replacing the transfer roller, also replace the ozone filter. A new ozone filter is included with the new transfer roller.

Replacing the Transfer Roller

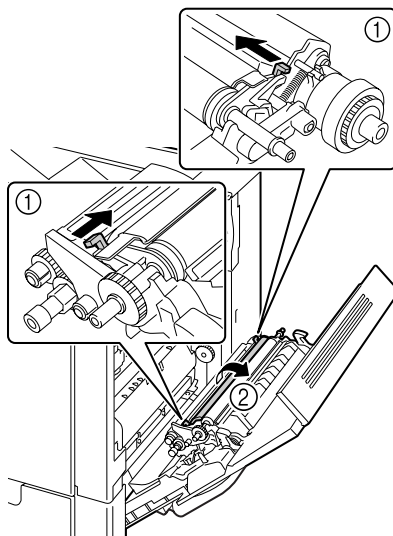
- 1 Pull the lever, and then open the right side cover.



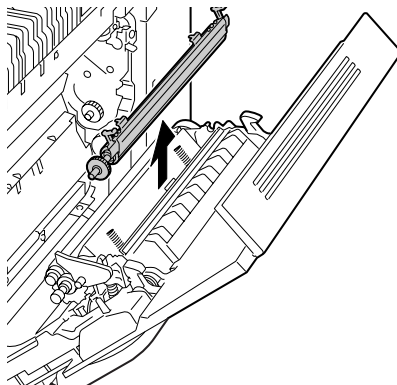
Before opening the right side cover, fold up the manual feed tray.



- 2 While pushing the levers to the inside, move the roller presser toward you.

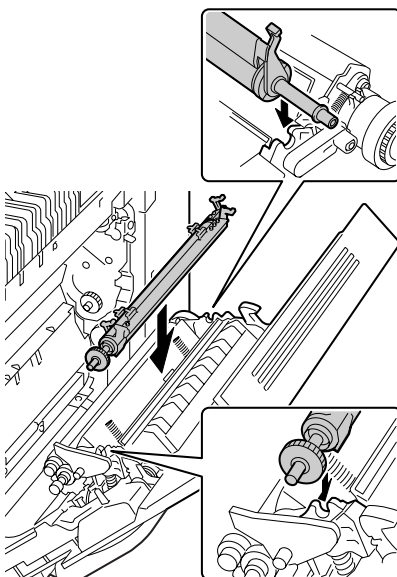


- 3** While continuing to press the levers, remove the transfer roller.

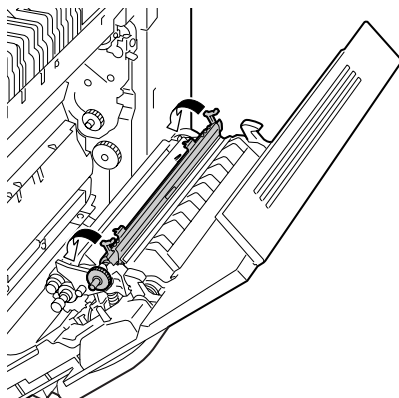


- 4** Prepare a new transfer roller.

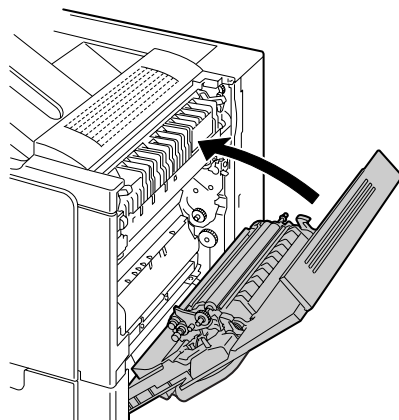
- 5** While pressing the levers, insert the shaft of the transfer roller into the bearings.



- 6 Move the levers away from you until it snaps into place.



- 7 Close the right side cover.

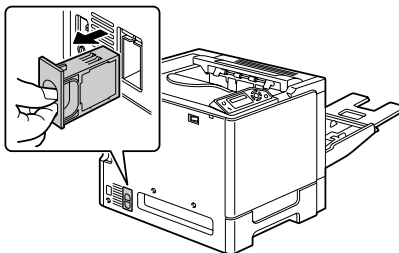


- 8 Reset the counter in the ENGINE/SERVICE/RESET COUNTER TRANSFER ROLLER menu.

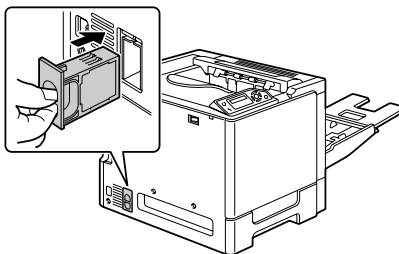
- 9 Replace the ozone filter, using the following procedure.

Replacing the Ozone Filter

- 1 Remove the ozone filter from the printer.



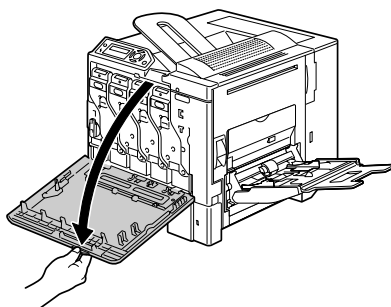
- 2 Slide the new ozone filter into the printer until it snaps into place.



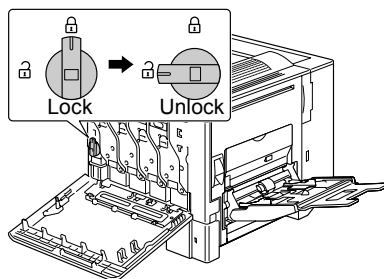
Replacing the Transfer Belt Unit

When the time to replace the transfer belt unit is reached, the message **TRANSFER END** appears. Printing can continue even after this message appears; however, since the print quality is reduced, the transfer belt unit should be replaced immediately.

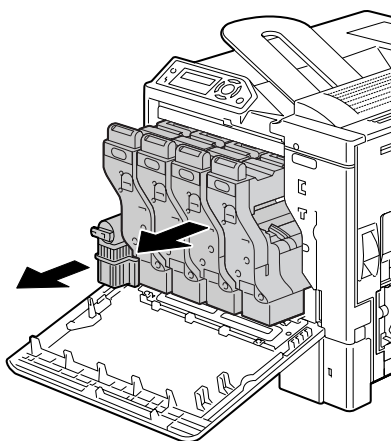
- 1 Open the printer's front cover.



- 2 Turn the dial to unlock the waste toner bottle.



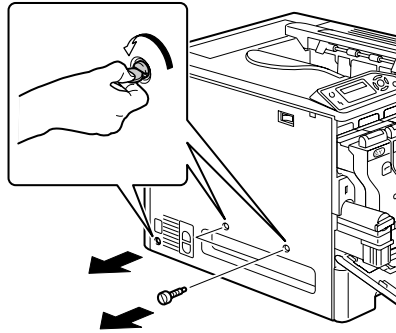
- 3 Pull out the waste toner bottle and the toner cartridges for about 10 cm (4").



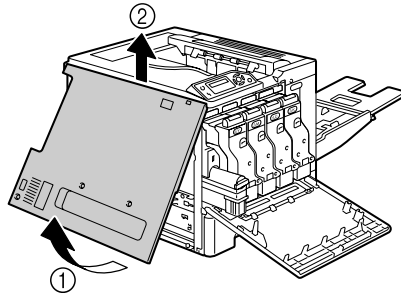
- 4** Using a coin, remove the screws on the left side cover.



Be careful not to lose the screws.



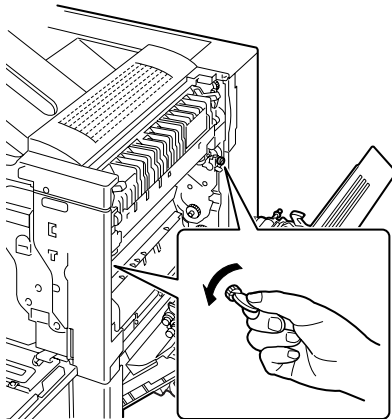
- 5** Remove the left side cover.



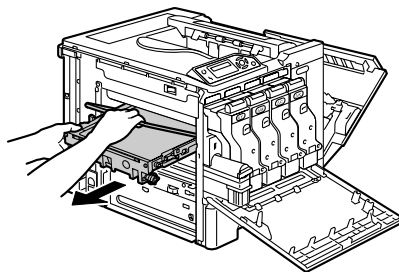
- 6** Open the right side cover, and then use a coin to loosen the screws securing the transfer belt unit.



Before opening the right side cover, fold up the manual feed tray.



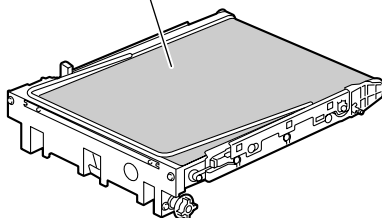
- 7 From the side where the left side cover was removed, hold the arm, and then carefully pull out the transfer belt unit.



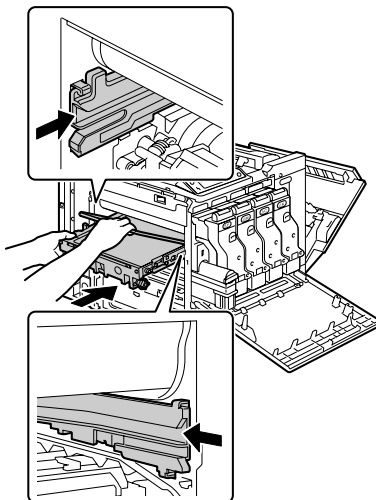
- 8 Prepare a new transfer belt unit.



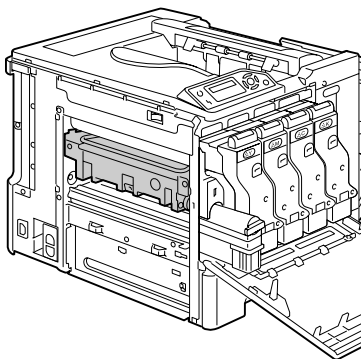
Be careful not to touch the surface of the belt.



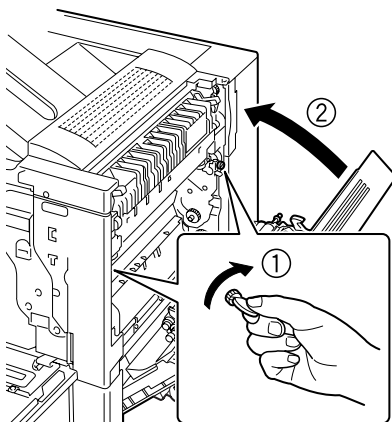
- 9 Insert the new transfer belt unit along the rails.



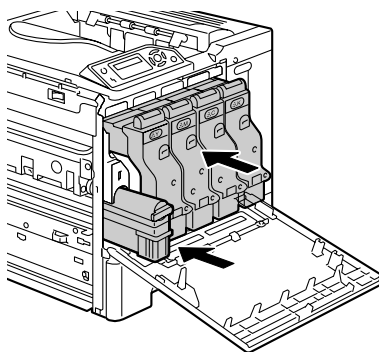
- 10** Fully insert the transfer belt unit.



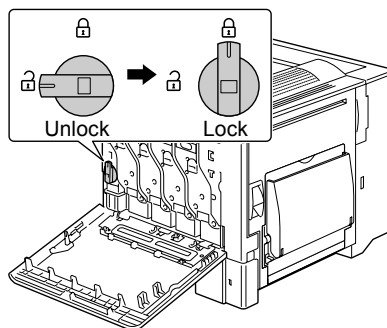
- 11** From the right side cover side, tighten the screws to secure the transfer belt unit and then close the right side cover.



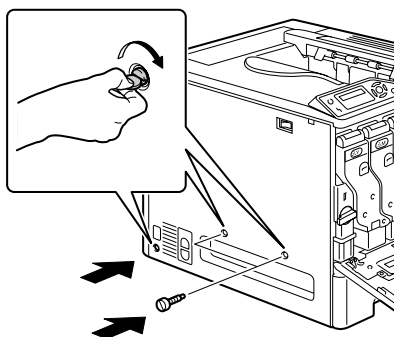
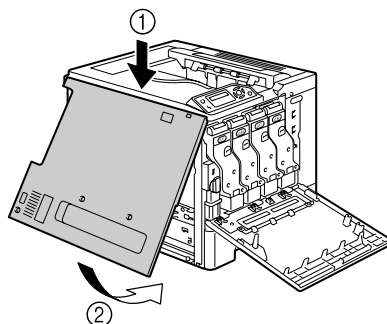
- 12** Insert the waste toner bottle and the toner cartridges all the way in until they snap into place.



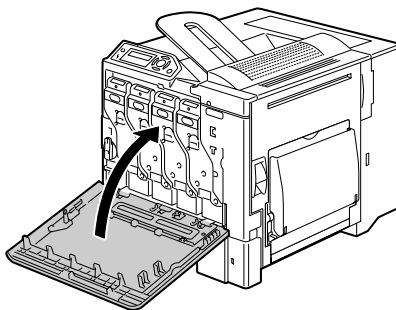
- 13** Turn the dial to lock the waste toner bottle into place.



- 14** Attach the left side cover, and then tighten the screws.



15 Close the front cover.



16 Reset the counter in the ENGINE/SERVICE/RESET COUNTER
TRANSFER BELT menu.

Maintaining the Printer

8

Maintaining the Printer



CAUTION

Read all caution and warning labels carefully, making sure to follow any instructions contained in them. These labels are located on the inside of the printer's covers and the interior of the printer body.

Handle the printer with care to preserve its life. Abuse handling may cause damage and void your warranty. If dust and paper scraps remain on the inside or outside of the printer, printer performance and print quality will suffer, so the printer should be cleaned periodically. Keep the following guidelines in mind.



WARNING!

Turn off the printer, unplug the power cord, and disconnect all interface cables before cleaning. Do not spill water or detergent into the printer; otherwise the printer will be damaged and an electric shock may occur.



CAUTION

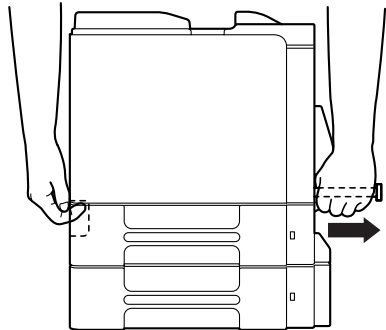
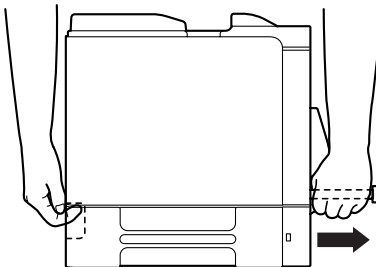
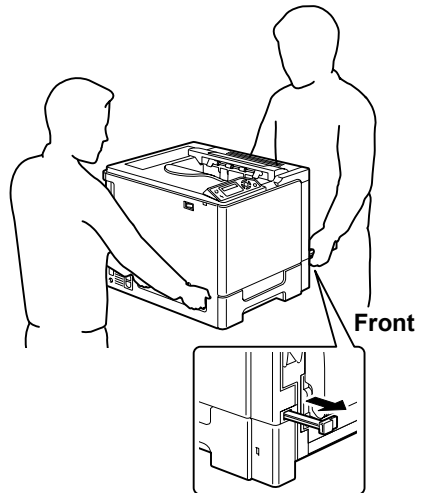
The fuser unit is hot. When the right side cover is opened, the fuser unit temperature drops gradually (one hour wait time).



- Be careful when cleaning the inside of the printer or removing media misfeeds, as the fuser unit and other internal parts may be very hot.
- Do not place anything on top of the printer.
- Use a soft cloth to clean the printer.
- Never spray cleaning solutions directly on the printer's surface; the spray could penetrate through the air vents of the printer and damage the internal circuits.
- Avoid using abrasive or corrosive solutions or solutions that contain solvents (such as alcohol and benzene) to clean the printer.
- Always test any cleaning solution (such as mild detergent) on a small inconspicuous area of your printer to check the solution's performance.
- Never use sharp or rough implements, such as wire or plastic cleaning pads.
- Always close the printer's covers gently. Never subject the printer to vibration.
- Do not cover the printer immediately after using it. Turn it off and wait until it cools down.

- Do not leave the printer's covers open for any length of time, especially in well-lit places; light may damage the toner cartridges.
- Do not open the printer during printing.
- Do not tap media stacks on the printer.
- Do not lubricate or disassemble the printer.
- Do not tilt the printer.
- Do not touch the electrical contacts, gears, or laser devices. Doing so may damage the printer and cause the print quality to deteriorate.
- Keep media in the output tray at a minimum level. If the media is stocked too high, your printer may experience media misfeeds and excessive media curl.
- Make sure two people are available to lift the printer when moving it.
Keep the printer level to avoid toner spillage.
- When lifting the printer, fold up the manual feed tray, and then lift the printer as shown in the illustration at the right.

Even if an optional lower feeder unit is installed, be sure to lift the printer as shown below. Do not grasp the grip of Tray 2, Tray 3 or the right side cover; otherwise, the lower feeder unit may be damaged.



- If you get toner on your skin, wash it off with cool water and a mild soap.



CAUTION

If you get toner in your eyes, wash it out immediately with cool water and consult a doctor.

- Make sure any parts removed during cleaning are replaced before you plug in the printer.

Cleaning the Printer

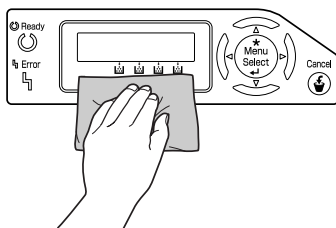


CAUTION

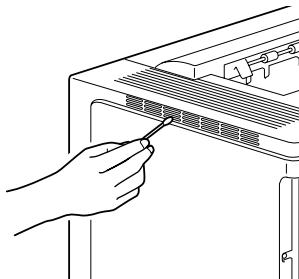
Be sure to turn off the printer and unplug the power cord before cleaning.

Exterior

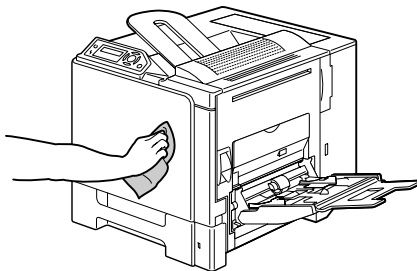
Control Panel



Ventilation Grill



Printer Exterior

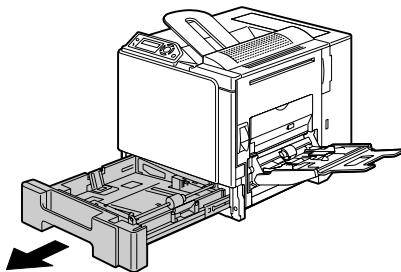


Media Rollers

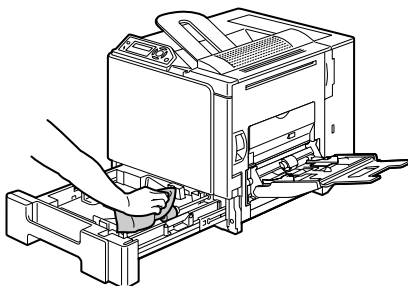
The accumulation of paper dust and other debris on the media rollers can cause media-feeding problems.

Cleaning the Media Feed Rollers (All Trays)

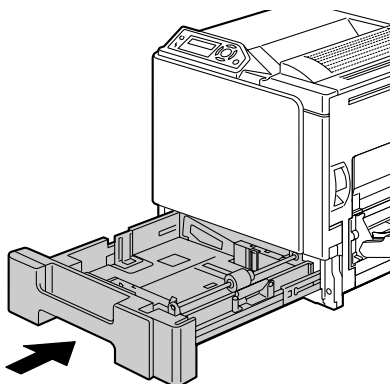
- 1 Pull out the tray.



- 2 Clean the media feed rollers by wiping them with a soft, dry cloth.

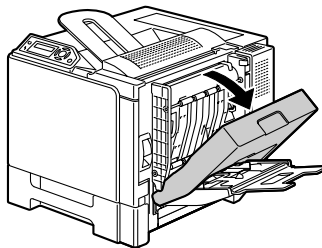


- 3 Close the tray.

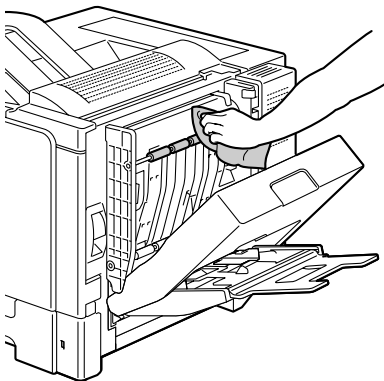


Cleaning the Duplex Option Feed Rollers

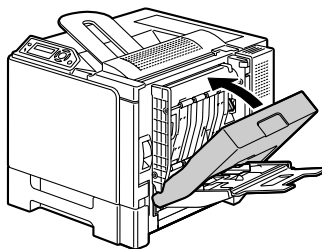
- 1 Open the duplex cover.



- 2 Clean the feed rollers by wiping them with a soft, dry cloth.



- 3 Close the duplex cover.

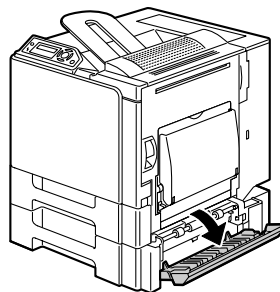


Cleaning the Media Transfer Rollers for Tray 2 and 3

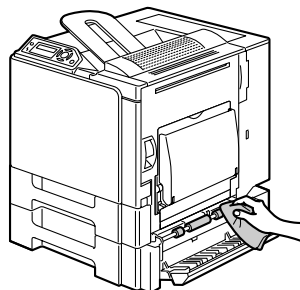
- 1 Open the right side cover of Tray 2 (Tray 3).



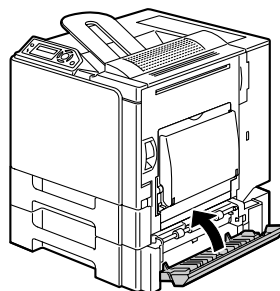
Before opening the right side cover of Tray 2 (Tray 3), fold up the manual feed tray.



- 2 Clean the media transfer rollers by wiping them with a soft, dry cloth.



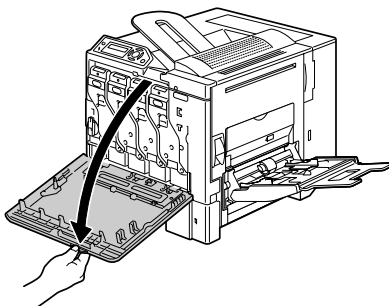
- 3 Close the right side cover of Tray 2 (Tray 3).



Cleaning the Laser Lens

This printer is constructed with four laser lenses. Clean all lenses as described below.

- 1 Open the printer's front cover.

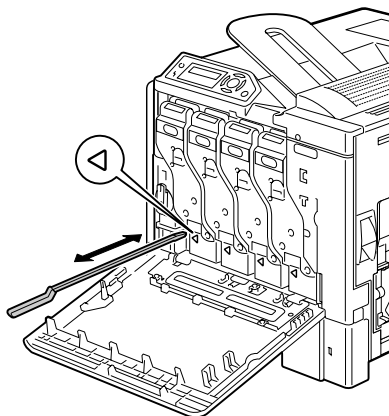


- 2 Align the marks at the bottom of the toner cartridge, insert the laser lens cleaning tool between the waste toner bottle and the yellow toner cartridge with the cleaning pad pointing down, and then slide it back and forth 2 or 3 times.

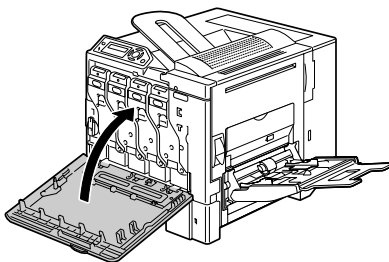
- 3 Clean between each of the toner cartridges in the same way.



The laser lens cleaning tool is included with the printer. Safely store the laser lens cleaning tool so that it will not be lost.



- 4 Close the front cover.



Troubleshooting

9

Introduction

This chapter provides information to aid you in resolving printer problems you may encounter, or at least guide you to the proper sources for help.

Printing the configuration page	Page 96
Preventing media misfeeds	Page 97
Understanding the media path	Page 98
Clearing media misfeeds	Page 99
Solving problems with media misfeeds	Page 113
Solving other problems	Page 116
Solving problems with printing quality	Page 121
Status, error, and service messages	Page 127

Printing the Configuration Page

Print the configuration (CONFIG) page to verify the printer is printing correctly, or to check the printer configuration.

Press Key (once)	Until Display Reads
	READY
<div>★ Menu Select ↵</div>	SPECIAL PAGES
<div>★ Menu Select ↵</div>	PRINT CONFIG PAGE
<div>★ Menu Select ↵</div>	The configuration page prints and the printer goes back to READY.

Preventing Media Misfeeds

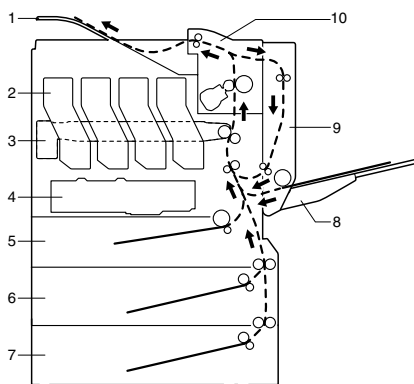
Make sure that...
Media matches the printer specifications.
Media is flat, especially on the leading edge.
The printer is on a hard, flat, level surface.
You store media in a dry location away from moisture and humidity.
You remove transparencies from the output tray immediately after printing to avoid static buildup.
You always adjust the media guides in the tray <i>after</i> inserting the media (<i>a guide that is not properly adjusted can cause poor print quality, media misfeeds, and printer damage</i>).
You load the media printing-side up in the tray (<i>many manufacturers place an arrow on the end of the wrapper to indicate the printing side</i>).

Avoid...
Media that is folded, wrinkled, or excessively curled.
Double feeding (<i>remove the media and fan the sheets—they may be sticking together</i>).
Fanning transparencies since this causes static.
Loading more than one type/size/weight of media in a tray at the same time.
Overfilling the trays.
Allowing the output tray to overfill (<i>the output tray has a 250-sheet capacity—misfeeding may occur if you allow more than 250 sheets of media to accumulate at one time</i>).
Allowing the output tray to fill with more than a few transparencies.

Understanding the Media Path

Understanding the printer's media path will help you locate media misfeeds.

- 1 Output tray
- 2 Toner cartridge
- 3 Transfer belt unit
- 4 Laser
- 5 Tray 1
- 6 Tray 2 (optional)
- 7 Tray 3 (optional)
- 8 Manual feed tray
- 9 Duplex option
- 10 Fuser unit



Clearing Media Misfeeds

To avoid damage, always remove misfed media gently, without tearing it. Any piece of media left in the printer, whether large or small, can obstruct the media path and cause further misfeeds. Do not reload media that has misfed.

Note

The image is not fixed on the media before the fusing process. If you touch the printed surface, the toner may stick to your hands, so be careful not to touch the printed face when removing the misfed media. Make sure not to spill any toner inside the printer.



CAUTION

Unfused toner can dirty your hands, clothes, or anything else it gets on. If you accidentally get toner on your clothes, lightly dust them off as best as you can. If some toner remains on your clothes, use cool, not hot water, to rinse the toner off. If toner gets on your skin, wash it off with cool water and a mild soap.



CAUTION

If you get toner in your eyes, wash it out immediately with cool water and consult a doctor.

If, after clearing the media misfeed, the misfeed message in the control panel window persists, open and close the printer's covers. This should clear the misfeed message.

Media Misfeed Messages and Clearing Procedures

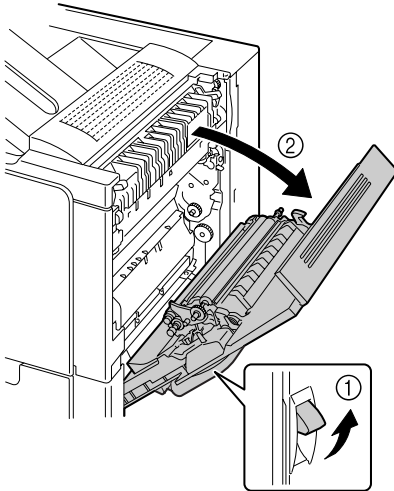
Media Misfeed Message	Page Reference
MEDIA JAM TRAY 1	Page 100
MEDIA JAM TRAY 2	Page 104
MEDIA JAM TRAY 3	Page 104
MEDIA JAM DUPLEX LOWER	Page 106
MEDIA JAM DUPLEX UPPER	Page 106
MEDIA JAM FUSER	Page 107
MEDIA JAM MANUAL FEED TRAY	Page 110
MEDIA JAM TRANSFER ROLLER	Page 110

Clearing a Media Misfeed in Tray 1

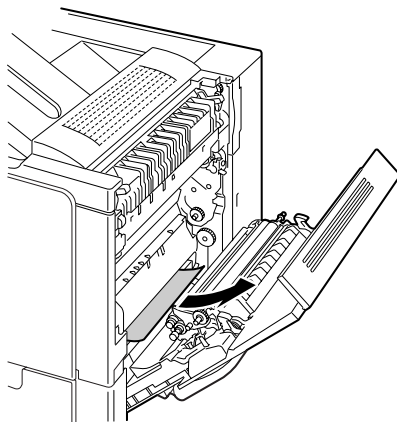
- 1 Pull the lever, and then open the right side cover.



Before opening the right side cover, fold up the manual feed tray.

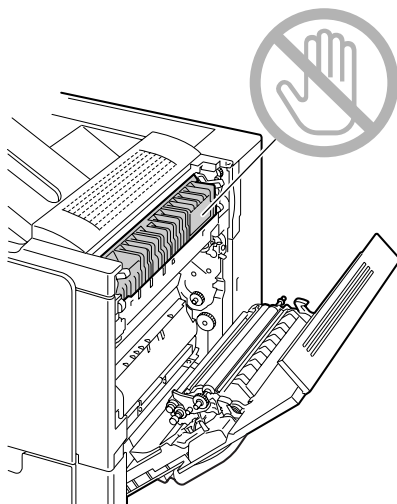


- 2 Carefully pull out the misfed media.



CAUTION

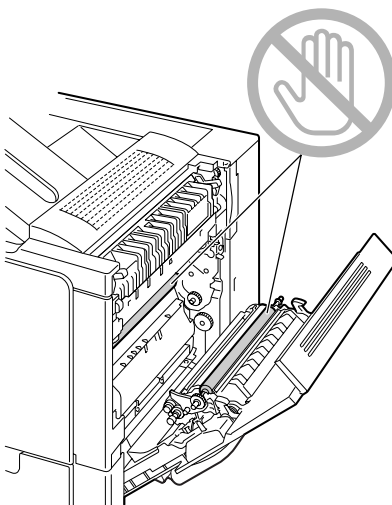
The area around the fuser unit is extremely hot. Touching anything other than the indicated levers and dials may result in burns. If you get burned, immediately cool the skin under cold water, and then seek professional medical attention.



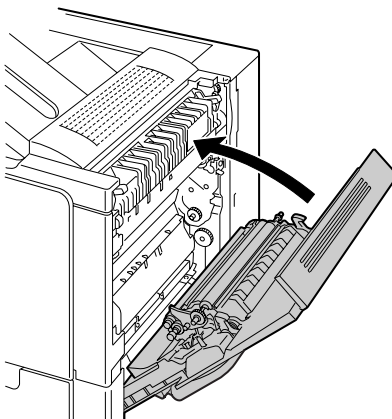
Note

Decreased print quality may result if the surface of the image transfer belt or the transfer roller is touched.

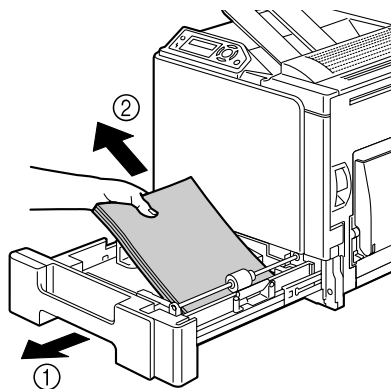
Be careful not to touch the surface of the image transfer belt or transfer roller.



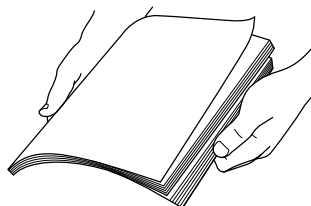
3 Close the right side cover.



- 4 Pull out Tray 1, and then remove all media from the tray.



- 5 Fan the media you removed and then align it well.



If transparencies are loaded, do not fan them; otherwise, static electricity may be produced, resulting in another media misfeed.

- 6 Load the media face up in Tray 1.



Make sure that the media is flat.

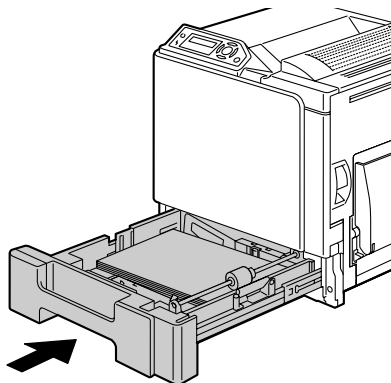


Do not load paper above the ▼ mark.



Slide the media guides against the edges of the media.

- 7 Close Tray 1.

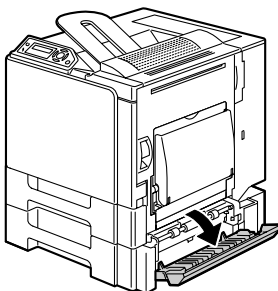


Clearing a Media Misfeed in Tray 2/3

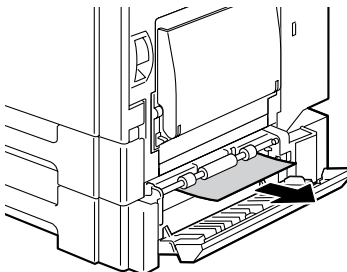
- 1 Open the right side cover of Tray 2 (Tray 3).



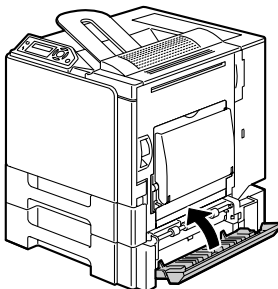
Before opening the right side cover of Tray 2 (Tray 3), fold up the manual feed tray.



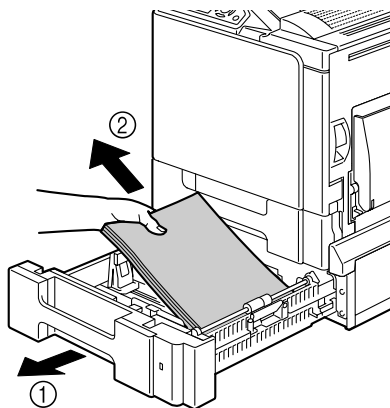
- 2 Carefully pull out the misfed media.



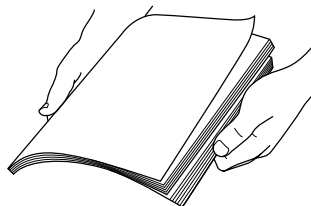
- 3 Close the right side cover of Tray 2 (Tray 3).



- 4 Pull out Tray 2 (Tray 3), and then remove all paper from the tray.



- 5 Fan the paper you removed and then align it well.



- 6 Load the paper face up in Tray 2 (Tray 3).



Make sure that the paper is flat.

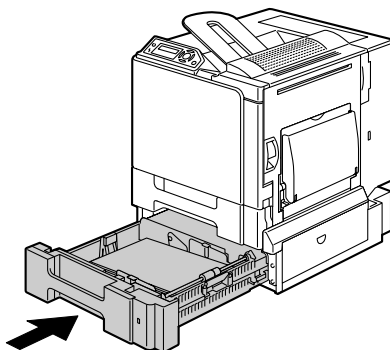


Do not load paper above the ▼ mark.



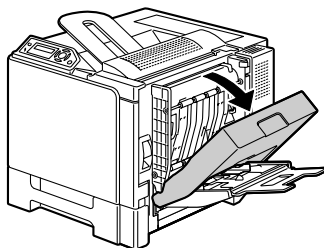
Slide the media guides against the edges of the paper.

- 7 Close Tray 2 (Tray 3).

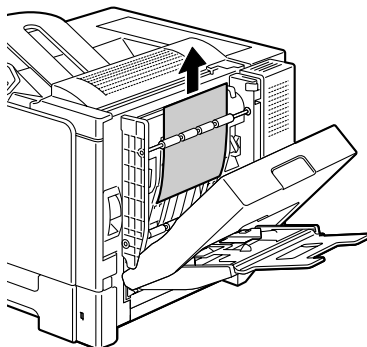


Clearing a Media Misfeed from the Duplex Option

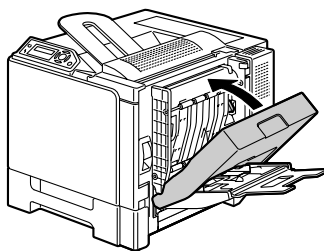
- 1 Open the duplex cover.



- 2 Carefully pull out the misfed media.



- 3 Close the duplex cover.

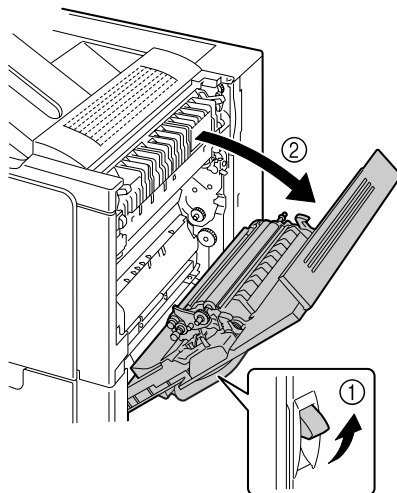


Clearing a Media Misfeed from the Fuser Unit

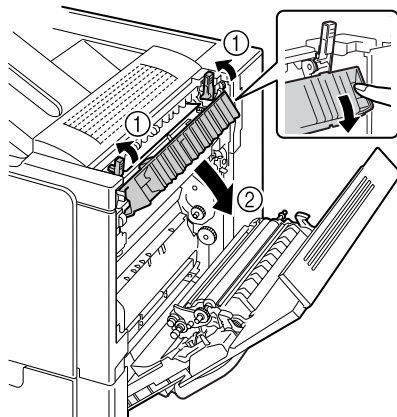
- 1 Pull the lever, and then open the right side cover.



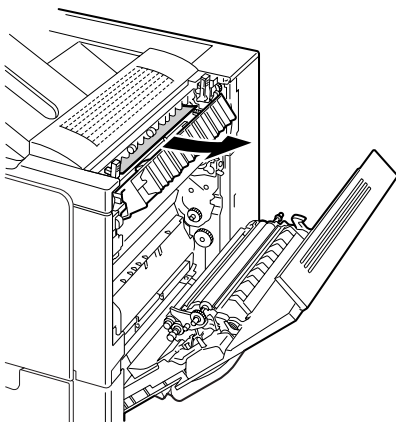
Before opening the right side cover, fold up the manual feed tray.



- 2 Push up the levers of the fuser unit cover, and then open the cover.

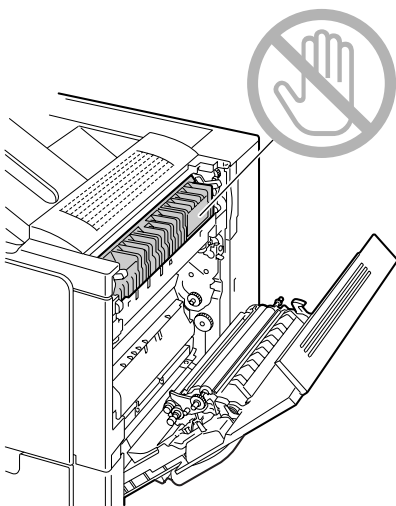


- 3 Carefully pull out the misfed media.



CAUTION

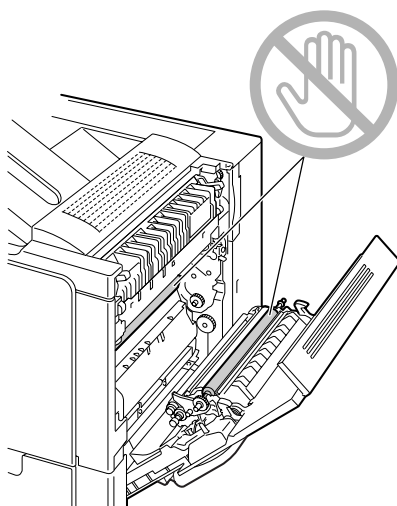
The area around the fuser unit is extremely hot. Touching anything other than the indicated levers and dials may result in burns. If you get burned, immediately cool the skin under cold water, and then seek professional medical attention.



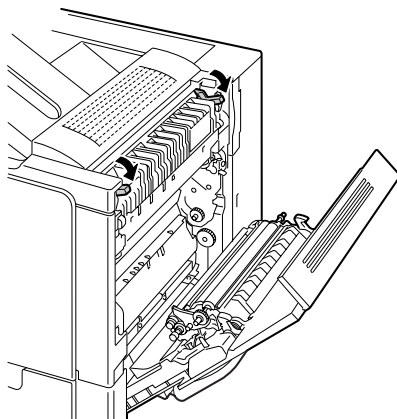
Note

Decreased print quality may result if the surface of the image transfer belt or the transfer roller is touched.

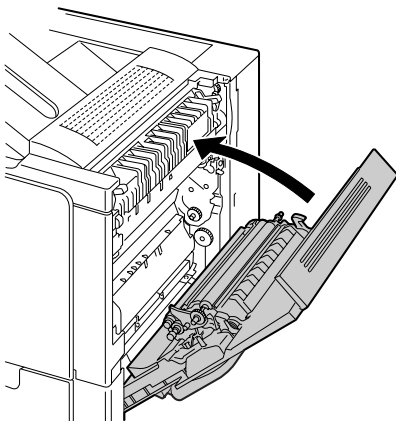
Be careful not to touch the surface of the image transfer belt or transfer roller.



4 Push down the levers.



- 5 Close the right side cover.

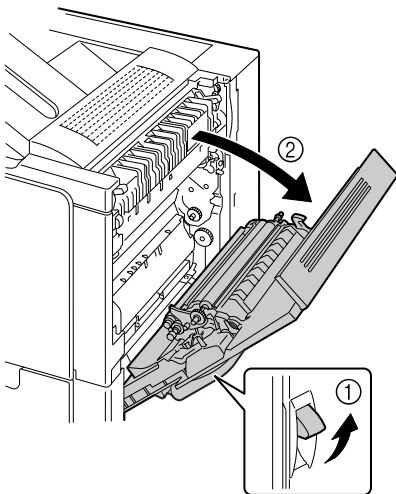


Clearing a Media Misfeed from the Manual Feed Tray and Transfer Roller

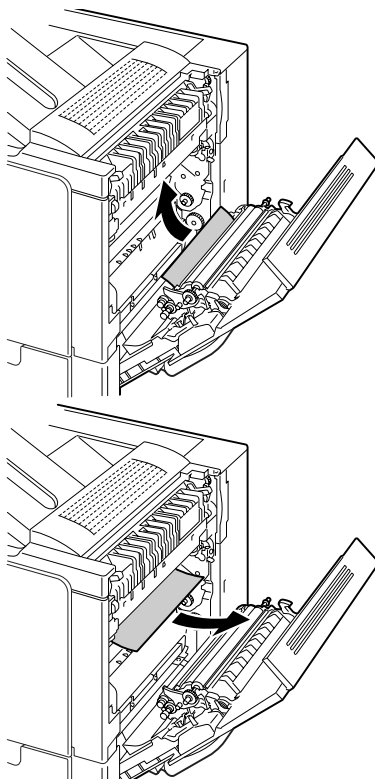
- 1 Pull the lever, and then open the right side cover.



Before opening the right side cover, fold up the manual feed tray.

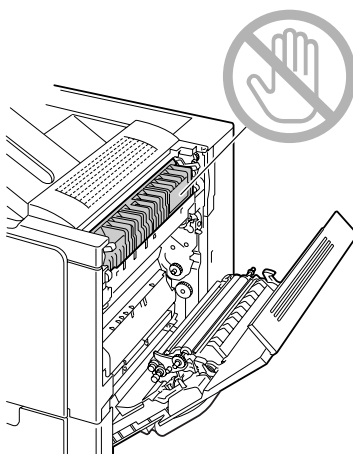


- 2 Carefully pull out the misfed media.



CAUTION

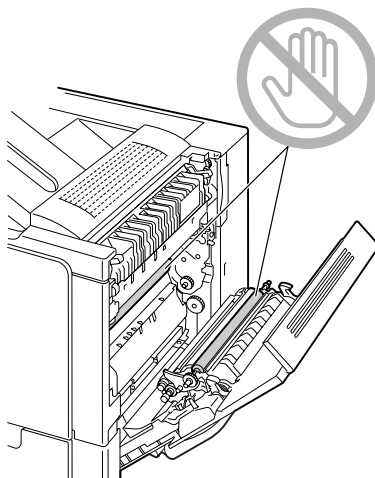
The area around the fuser unit is extremely hot. Touching anything other than the indicated levers and dials may result in burns. If you get burned, immediately cool the skin under cold water, and then seek professional medical attention.



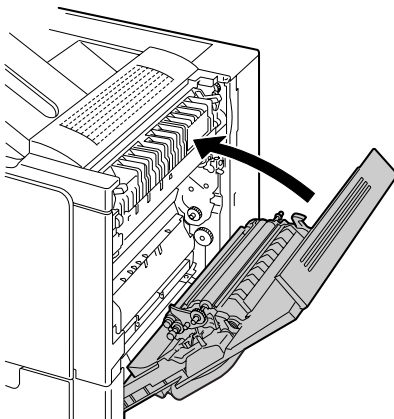
Note

Decreased print quality may result if the surface of the image transfer belt or the transfer roller is touched.

Be careful not to touch the surface of the image transfer belt or transfer roller.



3 Close the right side cover.



Solving Problems with Media Misfeeds




Frequent misfeeds in any area indicate that area should be checked, repaired, or cleaned. Repeated misfeeds may also happen if you're using unsupported print media.

Symptom	Cause	Solution
Several sheets go through the printer together.	The front edges of the media are not even.	Remove the media and even up the front edges, then reload it.
	The media is moist from humidity.	Remove the moist media and replace it with new, dry media.
	Too much static electricity is present.	Do not fan transparencies.
Media misfeed message stays on.	Right side cover needs to be opened and closed again to reset the printer.	Open and close the right side cover of the printer again.
	Some media remains misfed in the printer.	Recheck the media path and make sure that you have removed all of the misfed media.
Duplex option misfeeds.	Unsupported media (wrong size, thickness, type, etc.) is being used.	Use KONICA MINOLTA-approved media. See "Media Specifications" on page 38.
		Only plain paper, 60–90 g/m ² (16–24 lb) can be aut duplexed. See "Media Specifications" on page 38.
		Make sure that you have not mixed media types in the manual feed tray.
		Do not duplex envelopes, labels, thick stock, or transparencies.
	Media is still being misfed.	Recheck the media path inside the duplex option and make sure that you have removed all of the misfed media.

Symptom	Cause	Solution
Media is misfeeding.	The media is not correctly positioned in the tray.	Remove the misfed media and reposition the media properly in the tray.
	The number of sheets in the tray exceeds the maximum allowed.	Remove the excess media and reload the correct number of sheets in the tray.
	The media guides are not correctly adjusted to the media size.	Adjust the media guides in the tray to match the size of the media.
	Warped or wrinkled media is loaded in the tray.	Remove the media, smooth it out, and reload it. If it still misfeeds, do not use that media.
	The media is moist from humidity.	Remove the moist media and replace it with new, dry media.
	Custom-sized media, envelopes, labels, postcards, thick stock, or transparencies are loaded in Tray 1, 2 or 3.	Special media must be loaded in the manual feed tray only.
	The recommended transparency or label sheet is facing the wrong way in the manual feed tray.	Load the transparencies or label sheets according to the manufacturer's instructions.
	Envelopes are facing the wrong way in the manual feed tray.	Load the envelopes in the manual feed tray so the flaps are facing up.
		If the flaps are on the long edge, load the envelopes with the flaps toward the right of the printer.

Symptom	Cause	Solution
Media is misfeeding.	Transparencies have collected static electricity in the tray.	Remove the transparencies and load them in the tray one sheet at a time. Do not fan transparencies before loading them.
	Unsupported media (wrong size, thickness, type, etc.) is being used.	Use KONICA MINOLTA-approved media. See “Media Specifications” on page 38.
	The media roller is dirty.	Clean the media supply roller. For more details, refer to “Media Rollers” on page 91.

Solving Other Problems

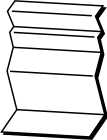
 For details on consumables, access www.q-shop.com.

Symptom	Cause	Solution
Printer power is not on.	The power cord is not correctly plugged into the outlet.	Turn off the printer, confirm that the power cord is correctly plugged into the outlet, and then turn on the printer.
	Something is wrong with the outlet connected to the printer.	Plug another electrical appliance into the outlet and see whether it operates properly.
	The power switch is not correctly turned on (I position).	Turn the power switch off (O position), then turn it back to the on (I position).
	The printer is connected to an outlet with a voltage or frequency that does not match the printer specifications.	Use a power source with the specifications listed in appendix A, "Technical Specifications."
Data was sent to the printer, but it doesn't print.	An error message is displayed in the message window.	Handle according to the message displayed.
The control panel displays TONER LOW much sooner than expected.	One of the cartridges may be defective.	Remove the toner cartridges and check them for damage. If one is damaged, replace it.
	You printed with heavy toner coverage.	See specifications in Appendix A.
You can't print the configuration page.	The tray is empty.	Check that at least Tray 1 is loaded with media, in place, and secure.
	The printer's covers aren't closed securely.	Make sure the covers are closed securely. Close all covers gently to avoid jarring the printer. Make sure the waste toner bottle and toner cartridges are installed correctly.
	There is a media misfeed.	Clear the media misfeed.

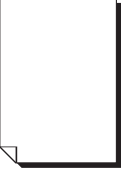

Symptom	Cause	Solution
Images cannot be printed from the digital camera.	The firmware version of the printer is not 03.XX or later.	Print a configuration page and verify the firmware version of the printer. If the printer controller firmware version is not 03.XX or later, refer to the magi-color DL Series Firmware Updater Guide on the Camera Direct Photo Print Card CD-ROM for upgrading.
	The digital camera is in transfer mode.	Set the digital camera to the mode for printing.
Printing takes too much time.	The printer is set to a slow printing mode (for example, thick stock or transparency).	It takes more time to print on special media. When using regular paper, make sure that the media type is set properly in the driver.
	The printer is set to Energy Saver mode.	It takes time for printing to start in Energy Saver mode. If you do not want to use this mode, disable it. (ENGINE/SERVICE/ENERGY SAVER menu)
	The job is very complex.	Wait. No action needed.
	The printer memory is insufficient.	Add more memory.
	A toner cartridge for a different region or an unapproved genuine toner cartridge is installed (INCORRECT CART. X is displayed in the message window).	Install a correct KONICA MINOLTA toner cartridge approved for your specific printer.
Blank pages come out during printing.	One or more of the toner cartridges are defective or empty.	Check the toner cartridges. The image will not print if one or more cartridges are empty.
	The wrong media is being used.	Check that the media type set in the driver matches the media loaded in the printer.




Symptom	Cause	Solution
Printer returned to READY before the configuration menu was changed.	The printer was in the configuration menu structure without a selection being made within 2 minutes.	When in the configuration menu structure, select your choice within 2 minutes.
Not all pages print.	The printer has the wrong kind of cable, or the printer is not configured for the correct cable and port.	Check your cable.
	The Cancel key was pressed.	Make sure no one pressed the Cancel key while your job was printing.
Not all pages print.	The tray is empty.	Check that the trays are loaded with media, in place, and secure.
	A document is printed with an overlay file which has been created by a non-magicolor 5440 DL driver.	Print the overlay file using a magicolor 5440 DL driver.




Symptom	Cause	Solution
Printer resets or turns off frequently.	The power cord is not correctly plugged into the outlet.	Turn off the printer, confirm that the power cord is correctly plugged into the outlet, and then turn on the printer.
	A system error occurred.	Contact Technical Support with the error information.
You are experiencing duplex problems.	Media or settings are not correct.	For autoduplexing, make sure that you have a duplex option installed.
		Make sure that you are using correct media.
		■ See “Media Specifications” on page 38.
		■ Do not duplex custom-sized media, envelopes, labels, postcards, thick stock, or transparencies.
		■ Make sure that you have not mixed media types in the manual feed tray.
		Make sure that your document has more than one page.
		Make sure the duplex option is installed and declared in the Windows printer driver (Device Option Setting tab).
With N-up on multiple copies, the output is incorrect.	Both the driver and the application have been set for collation.	In the printer driver (Setup/Duplex/Booklet), choose “Short Edge Binding” (flipped as on a clipboard) or “Long Edge Binding” (flipped as in a loose-leaf notebook).
		For N-up on duplexed pages, choose Collate only in the driver’s Paper Tab. Do not set collation in the application.
Booklet Left and Right Binding output is incorrect.	Both the driver and the application have been set for collation.	For Booklet Left Binding and Booklet Right Binding, choose Collate only in the driver’s Paper Tab. Do not set collation in the application.



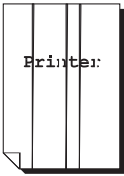
Symptom	Cause	Solution
You hear unusual noises.	The printer is not level.	Place the printer on a flat, hard, level surface.
	The tray is not installed correctly.	Remove the tray that you are printing from and reinsert it completely into the printer.
	There is a foreign object stuck inside the printer.	Turn off the printer and remove the object. If you cannot remove it, contact Technical Support.
The web-based utility cannot be accessed.	The PageScope Web Connection Administrator's password is incorrect.	The PageScope Web Connection Administrator password has a 6-character minimum and a 16-character maximum. For details of the PageScope Web Connection administrator password, refer to the magicolor 5440 DL Reference Guide.
Media is wrinkled. 	The media is moist from humidity or having water spilled on it.	Remove the moist media and replace it with new, dry media.
	The transfer roller or fuser unit is defective.	Check them for damage. If necessary, contact Technical Support with the error information.
	Unsupported media (wrong size, thickness, type, etc.) is being used.	Use KONICA MINOLTA-approved media. See "Media Specifications" on page 38.



Solving Problems with Printing Quality


Symptom	Cause	Solution
<p>Nothing is printed, or there are blank spots on the printed page.</p> 	One or more of the toner cartridges may be defective.	Remove the toner cartridges and check for damage. If it is damaged, replace it.
	The printer driver is not set correctly.	Select the proper setting in the printer driver to switch from transparencies to plain paper.
	The media is moist from humidity.	Adjust the humidity for media storage. Remove the moist media and replace it with new, dry media.
	The media set in the printer driver mismatches the media loaded in the printer.	Load the correct media in the printer.
	The power source does not match the printer specifications.	Use a power source with the proper specifications.
	Several sheets are being fed at the same time.	Remove the media from the tray and check it for static electricity. Fan plain paper or other media (but not transparencies), and replace it in the tray.
	Media is not set properly in the tray(s).	Remove the media, tap it to straighten it out, return it to the tray, and realign the media guides.
<p>Entire sheet is printed in black or color.</p> 	One or more of the toner cartridges may be defective.	Remove the toner cartridges and check for damage. If it is damaged, replace it.

Symptom	Cause	Solution
Image is too light; there is low image density. 	Laser lens is dirty.	Clean the laser lens.
	The media is moist from humidity.	Remove the moist media and replace with new, dry media.
	There is not much toner left in the cartridge.	Replace the toner cartridge.
	One or more of the toner cartridges may be defective.	Remove the toner cartridges and check them for damage. If one is damaged, replace it.
	The media type is set incorrectly.	When printing envelopes, labels, postcards, thick stock, or transparencies, specify the appropriate media type in the printer driver.
Image is too dark. 	One or more of the toner cartridges may be defective.	Remove the toner cartridges and check them for damage. If one is damaged, replace it.
Image is blurred; background is lightly stained; there is insufficient gloss of the printed image. 	One or more of the toner cartridges may be defective.	Remove the toner cartridges and check them for damage. If one is damaged, replace it.

Symptom	Cause	Solution
The print or color density is uneven. 	One or more of the toner cartridges may be defective or low.	Remove the toner cartridges and check them for damage. If one is damaged, replace it.
	The printer is not level.	Place the printer on a flat, hard, level surface.
Irregular print or mottled image appears. 	The media is moist from humidity.	Adjust the humidity in the media storage area. Remove the moist media and replace it with new, dry media.
	Unsupported media (wrong size, thickness, type, etc.) is being used.	Use KONICA MINOLTA-approved media. See “Media Specifications” on page 38.
	One or more of the toner cartridges may be defective.	Remove the toner cartridges and check for damage. If it is damaged, replace it.
There is insufficient fusing or the image comes off when rubbed. 	The media is moist from humidity.	Remove the moist media and replace it with new, dry media.
	Unsupported media (wrong size, thickness, type, etc.) is being used.	Use KONICA MINOLTA-approved media. See “Media Specifications” on page 38.
	Media type is set incorrectly.	When printing envelopes, labels, postcards, thick stock, or transparencies, specify the appropriate media type in the printer driver.

Symptom	Cause	Solution
<p>There are toner smudges or residual images.</p> 	One or more of the toner cartridges may be defective or installed incorrectly.	Remove the toner cartridges and check them for damage. If one is damaged, replace it.
<p>There are toner smudges on the back side of the page (whether or not it has been duplexed).</p> 	The media transfer roller is dirty.	Clean the media transfer roller. If you think the transfer roller should be replaced, contact Technical Support with the error information.
	The media path is dirty with toner.	Print several blank sheets and the excess toner should disappear.
	One or more of the toner cartridges may be defective.	Remove the toner cartridges and check for damage. If it is damaged, replace it.
<p>Abnormal areas (white, black, or color) appear in a regular pattern.</p> 	The laser lens is dirty.	Clean the laser lens.
	A toner cartridge may be defective.	Remove the toner cartridge with the color causing the abnormal image. Replace it with a new toner cartridge.

Symptom	Cause	Solution
Image defects. 	The laser lens is dirty.	Clean the laser lens.
	A toner cartridge may be leaking.	Remove the toner cartridges and check them for damage. If one is damaged, replace it.
	A toner cartridge may be defective.	Remove the toner cartridge with the color causing the abnormal image. Replace it with a new toner cartridge.
Lateral lines or bands appear on image. 	The printer is not level.	Place the printer on a flat, hard, level surface.
	The media path is dirty with toner.	Print several sheets and the excess toner should disappear.
	One or more of the toner cartridges may be defective.	Remove the toner cartridges and check them for damage. If one is damaged, replace it.
Colors look drastically wrong.	One or more of the toner cartridges may be defective.	Remove the toner cartridges and verify that the toner is distributed evenly on each cartridge roller, and reinstall the toner cartridges.
	One or more of the toner cartridges may be low or empty.	Check the control panel for an X TONER LOW or TONER EMPTY X message. If necessary, replace the specified toner cartridge.
Colors are not registering properly; colors are mixed or have page-to-page variation.	The front cover is not properly closed.	Make sure that the printer's front cover is closed.
	One or more of the toner cartridges may be defective.	Remove the toner cartridges and check them for damage. If one is damaged, replace it.
	The media is moist from humidity.	Remove the moist media and replace it with new, dry media.

Symptom	Cause	Solution
Line art does not print in color.	The line art setting for 2400 x 600 dpi requires Color Matching to be turned off.	In the driver, go to Properties/Quality and choose Off in the Color Matching section.
		Lower the resolution to 1200 x 600 or 600 x 600 dpi.
The color has a poor reproduction or has poor color density. 	One or more of the toner cartridges may be defective.	Remove the toner cartridges and check them for damage. If one is damaged, replace it.

If the problem is not resolved, even after all of the above have been performed, contact Technical Support with the error information.

For contact information, refer to the magicolor 5440 DL General Information Guide.

Status, Error, and Service Messages

Status, error, and service messages are displayed in the control panel message window. They provide information about your printer and help you locate many problems. When the condition associated with a displayed message has changed, the message is cleared from the window.

Standard Status Messages

This message...	means...	do this...
CALIBRATING	After replacing a toner cartridge, or after rebooting your printer after environmental changes, your printer automatically pauses to do a 75-second Auto-Image Density Control (AIDC) cycle. This process is provided to make reliable printer operation with optimum output quality possible.	No action needed.
CANCELLING JOB	The job is being cancelled.	
ENERGY SAVER	The printer is in Energy Saver mode to reduce power consumption during periods of inactivity. When a print job is received, the printer returns to normal power within 30 seconds.	
IMAGING	The image from the digital camera is being rendered.	
PRINTING	The printer is printing.	
PROCESSING	The printer is processing data.	
READY	The printer is on and ready to receive data.	
WARMING UP	The printer is warming up.	

Error Messages (Warning)

Note

If an error message (TONER EMPTY, TRANSFER END, etc.) appears, print out the configuration page, and then check the status of the other consumables. For details on printing the configuration page, refer to “Printing the Configuration Page” on page 96.

This message...	means...	do this...
FUSER LIFE END	The fuser unit has reached the end of its life.	Contact Technical Support with the error information.
FUSER LIFE LOW	The fuser unit is near the end of its life.	If necessary, contact Technical Support with the error information.
INCORRECT CART. X	The x toner cartridge is an unapproved type.	Install a KONICA MINOLTA toner cartridge of the appropriate type (AM, EU, AP or JP), see page 67.
SIZE MISMATCH	A media size mismatch occurs when AUTO CONTINUE (Engine menu) is set to ON.	Load the correct media size.
TONER EMPTY X	The x toner cartridge is empty. (Appears when ENGINE/TONER EMPTY CONTINUE is set)	Replace the toner cartridge.
X TONER LOW	The x toner cartridge is low and should be replaced within 200 pages at 5% coverage of letter/A4 pages.	Prepare the specified color toner cartridge.

This message...	means...	do this...
TRANSFER END	The transfer belt unit has reached the end of its life.	Replace the transfer belt unit and reset the counter in the ENGINE / SERVICE / RESET COUNTER TRANSFER UNIT menu.
TRANSFER LOW	The transfer belt unit is near the end of its life.	Prepare a new transfer belt unit.
TRANS.ROLLER END	The transfer roller has reached the end of its life.	Replace the transfer roller and reset the counter in the ENGINE / SERVICE / RESET COUNTER TRANSFER ROLLER menu.
TRANS.ROLLER LOW	The transfer roller is near the end of its life.	Prepare a new transfer roller.
TRAY X EMPTY	Tray <i>x</i> (Tray 1, 2, or 3) was specified with the printer driver for printing, but Tray <i>x</i> is empty.	Load media into the specified tray.
UNSUPPORTED DIMM	An unsupported DIMM is installed.	Check the DIMM specifications and install a supported DIMM.
WASTE:NEAR FULL	The waste toner bottle is nearly full.	Prepare a new waste toner bottle.

Error Messages (Operator Call)

This message...	means...	do this...
COVER OPEN DUPLEX	The duplex cover is open.	Close the duplex cover.
COVER OPEN FRONT	The printer's front cover is open.	Close the front cover.
COVER OPEN SIDE	The printer's right side cover is open.	Close the right side cover.
COVER OPEN TRAY X	The right side cover of Tray X (Tray 2 or 3) is open.	Close the right side cover of the tray.
DRAWER OPEN TRAY X	The specified tray X (Tray 1, 2 or 3) is not installed, or not closed.	Insert the tray into the media feed unit.
DUPLEX OPTION NOT ATTACHED	Duplex printing was specified with the printer driver, but the duplex option is not installed.	Stop the print job and change the printer driver setting. If necessary, install the duplex option.
ERROR MEMORY OVERFLOW	The printer has received more data than can be processed with its internal memory.	Turn the printer off, and then, after a few seconds, turn it on again. Decrease the amount of data to be printed (for example, by decreasing the resolution), and then try printing again. If that doesn't solve the problem, install an optional memory module.
ERROR VIDEO UNDERRUN	The amount of data to be printed exceeds the printer's internal data transmission speed.	Turn the printer off, and then, after a few seconds, turn it on again. Decrease the amount of data to be printed (for example, by decreasing the resolution), and then try printing again.

This message...	means...	do this...
FUSER NOT ATTACHED	The fuser unit is not installed.	Contact Technical Support with the error information.
MANUAL FEED TRAY NOT INSTALLED	The manual feed tray was specified with the printer driver for printing, but the manual feed tray is not installed.	Install the manual feed tray.
MEDIA JAM DUPLEX LOWER	Media has misfed in the duplex option.	Locate and remove the misfeed.
MEDIA JAM DUPLEX UPPER	Media has misfed in the duplex option.	
MEDIA JAM FUSER	Media has misfed leaving the fuser area.	
MEDIA JAM MANUAL FEED TRAY	Media has misfed in the manual feed tray.	
MEDIA JAM TRANSFER ROLLER	Media has misfed in the transfer roller area. This type of misfeed means that the media did not make it to the paper exit area.	
MEDIA JAM TRAY X	Media has misfed while being pulled from the specified tray (X).	
MEDIA JAM UNDEFINED	A media misfeed occurred because the driver settings are inconsistent.	After clearing the media misfeed, check the driver settings.
PUT MEDIA : M-TRAY "MEDIA"	The media type set in the printer driver is different from the type of media loaded into the manual feed tray.	Load the correct media type into the manual feed tray.

This message...	means...	do this...
PUT MEDIA : M-TRAY "SIZE"	The media size set in the printer driver is different from the size of media loaded.	Load the correct media size into the manual feed tray.
PUT MEDIA : TRAY X "SIZE"	The media size set in the printer driver is different from the size of media loaded.	Load the correct media size into the specified tray.
REPLACE TONER X	The X toner cartridge is empty (Appears when ENGINE/TONER EMPTY STOP is set).	Replace the toner cartridge.
SIZE/TYPE ERROR	Unsupported media (wrong size, thickness, type, etc.) is being used.	Load the correct media size and type.
SIZE/TYPE ERROR DUPLEX	The media not compatible with duplex printing.	Use the correct media size and type when duplexing.
TONER LIFE END X	The X toner cartridge is completely empty. (Appears when ENGINE/TONER EMPTY CONTINUE is set)	Replace the toner cartridge.
X TONER NOT INSTALLED	The X toner cartridge is not installed, or an unapproved toner cartridge is installed.	Install a correct KONICA MINOLTA toner cartridge.
TRAY X NOT ATTACHED	Tray X (Tray 2 or 3) was specified with the printer driver for printing, but Tray X is not installed.	Stop the print job and change the printer driver setting. If necessary, install Tray X.
WASTE BOTTLE FULL	The waste toner bottle is full.	Install a new waste toner bottle.

Service Messages

These messages indicate a more serious fault that can only be corrected by a customer service engineer. If one of these messages appears, turn the printer off, then turn it on again. If the problem persists, contact your local vendor or authorized service provider.

This service message...	means...	do this...
ERROR AIDC SENSOR	AIDC sensor error.	Contact Technical Support with the error information.
ERROR COMMUNICATION	A communication error occurred in the USB or Ethernet interface.	Check that the interface cable is properly connected to the printer. If the error continues to appear even though the cables are correctly connected, contact Technical Support.
ERROR CONTROLLER	Controller internal error.	Contact Technical Support with the error information.
ERROR DIMM	SDRAM DIMM error.	Contact Technical Support with the error information.
ERROR ENGINE INTERFACE	A communication error occurred with the engine controller.	Contact Technical Support with the error information.
ERROR RAM	RAM writing/reading error.	Contact Technical Support with the error information.
ERROR ROM	ROM error.	Contact Technical Support with the error information.
FATAL ERROR CODE : XX	An error has been detected with the item indicated "XX" in the service message.	Reboot the printer. This often clears the service message, and printer operation can resume. If the problem persists, contact Technical Support.

Installing Accessories

10

Introduction

Note

Use of accessories not manufactured or supported by KONICA MINOLTA will void your warranty.



This chapter provides information about the following accessories.

Dual In-Line Memory Module (DIMM)	64 MB, 128 MB, 256 MB, 512 MB DIMM (Buffered)
Duplex Option	Auto duplexing
Lower Feeder Unit (Tray 2/3)	500-sheet tray included
Camera Direct Photo Print Card	When using direct printing, the optional Camera Direct Photo Print Card must be installed.



For details on installing and using the Camera Direct Photo Print Card, refer to the Installation Manual included with the Camera Direct Photo Print Card. To purchase the Camera Direct Photo Print Card, contact your local vendor or visit printer.konicaminolta.com.

Note

Installing accessories always requires that the printer and accessories are turned off and unplugged during installation.

Antistatic Protection

Note

Before opening and handling the dual in-line memory module (DIMM), first touch a metal part of the printer to avoid an electrostatic charge building up. When the DIMM is taken out of its conductive bag, hold it by its edges to avoid touching the electronic circuits. When handling the DIMM, be sure to place it on an anti-static mat or a piece of aluminum foil.

Dual In-Line Memory Module (DIMM)



You may need additional memory (DIMM) for complex graphics, and for duplex printing.

Dual in-line memory module (or DIMM) is compact circuit board with surface-mount memory chips.

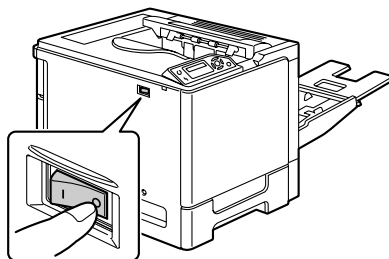
Your printer comes with 64 MB SDRAM printer memory on board. However, you can upgrade to a maximum of 576 MB of RAM through the installation of an additional 512 MB DIMM. Your printer comes with one free DIMM slot.

Installing a DIMM

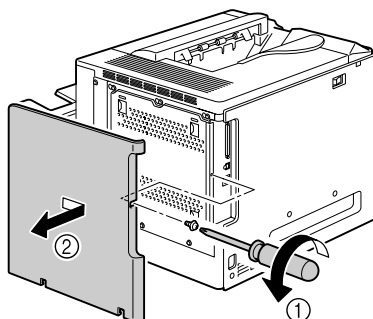
Note

It's very important to protect the printer controller board and any associated circuit boards from electrostatic damage. Before performing this procedure, review the antistatic caution on page 136. In addition, always handle circuit boards by the edges only.

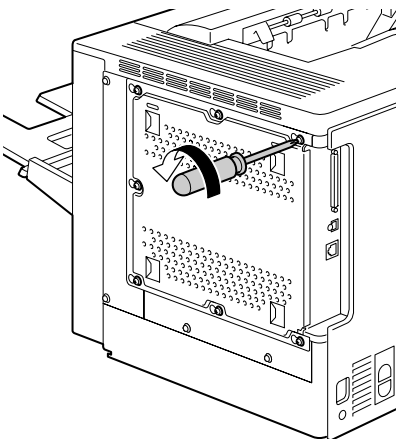
- 1 Turn off the printer and disconnect the power cord and interface cables.



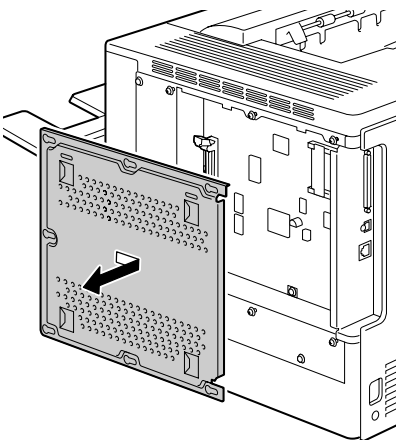
- 2 Using a screwdriver, remove the screw. Then, slide the rear cover to the right and remove it.



- 3** Using a screwdriver, loosen the seven screws. (Do not remove them from the printer.)

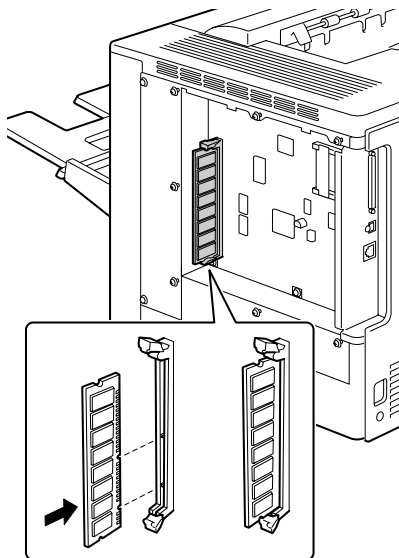


- 4** Slide the panel slightly to the right and lift it off the printer.

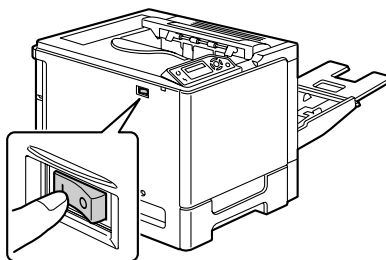


- 5 Insert the new DIMM straight into the DIMM connector until the latches snap into the locked position.

Observe the keyed side of the DIMM to align it with the connector. If you cannot snap the DIMM into place, do not force it. Reposition it, making sure that the DIMM is seated completely in the connector.



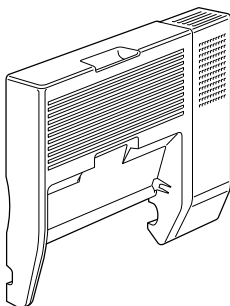
- 6 Reinstall the panel and tighten the seven screws.
7 Attach the rear cover.
8 Reconnect all interface cables.
9 Reconnect the power cord, and turn on the printer.



- 10 Print a configuration page (SPECIAL PAGES/PRINT CONFIG PAGE MENU) and verify that the total amount of the RAM installed in your printer is listed.

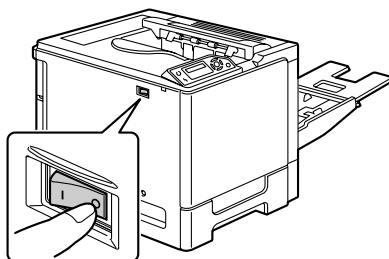
Duplex Option

Duplex (2-sided) printing can be performed automatically with the duplex option and enough memory installed. See “Duplexing” on page 61.

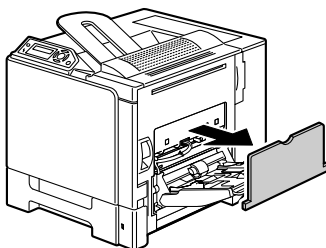


Installing the Duplex Option

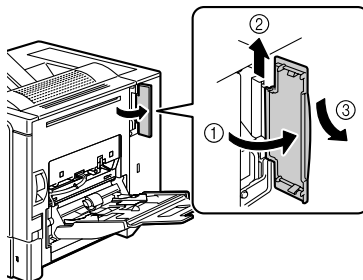
- 1 Turn off the printer.



- 2 Remove the cover on the right side cover.



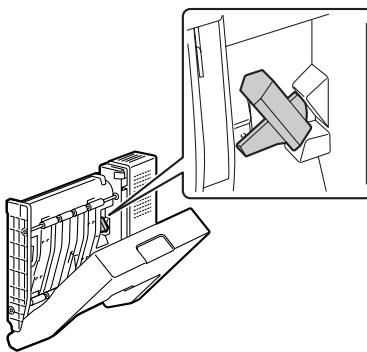
- 3 Remove the door at the side of the right side cover.



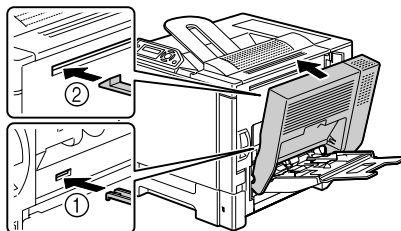
- 4 Prepare the duplex option.



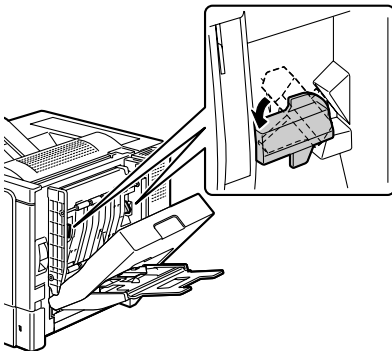
Before installing the duplex option, open the duplex cover, and then check that the knob is positioned as shown in the illustration. Then, close the duplex cover.



- 5 Attach the duplex option, as shown in the illustration.



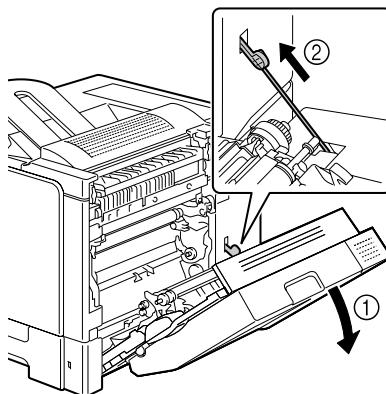
- 6 Open the duplex cover, and then turn both knobs counterclockwise until they are horizontal to secure the duplex option to the right side cover. Then, close the duplex cover.



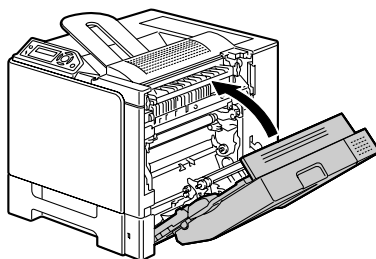
- 7 Pull the lever, open the right side cover, and then attach the support wire for the duplex option to the printer.



Before opening the right side cover, fold up the manual feed tray.



- 8 Close the right side cover.



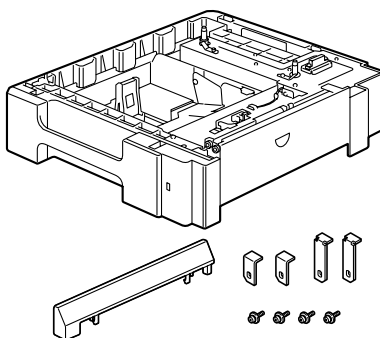
- 9 Install the duplex unit in the driver (Device Options Setting tab).

Lower Feeder Unit

You can install up to two optional lower feeder units (Trays 2 and 3). Each lower feeder unit increases your printer's media feed capacity by 500 sheets.

Kit Contents

- Lower feeder unit with a tray (500-sheet capacity)
- Four metal brackets
 - Two front brackets
 - Two rear brackets
- Four securing screws
- Transport guide (used only for Tray 2)

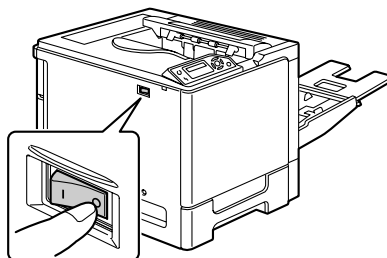


Installing a Lower Feeder Unit

Note

Since consumables are installed in the printer, be sure to keep the printer level when moving it in order to prevent accidental spills.

- 1 Turn off the printer and disconnect the power cord and interface cables.

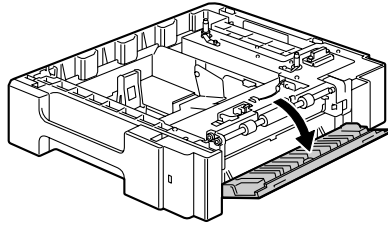


- 2 Prepare the lower feeder unit.



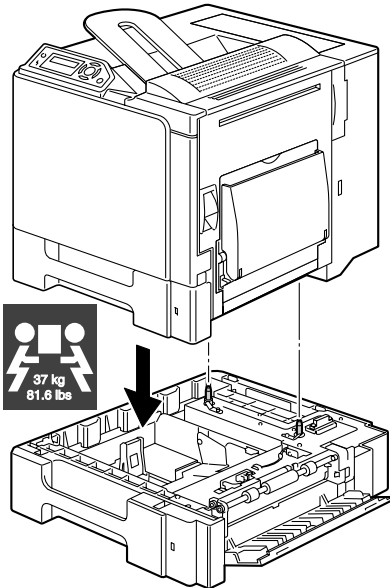
Be sure to place the lower feeder unit on a level surface.

- 3 Open the right side cover of the lower feeder unit.



The right side cover of the lower feeder must be opened before the feeder can be installed onto the printer.

- 4 With another person's help, place the printer on top of the lower feeder unit, making sure that the positioning pins on the lower feeder unit correctly fit into the holes on the bottom of the printer.



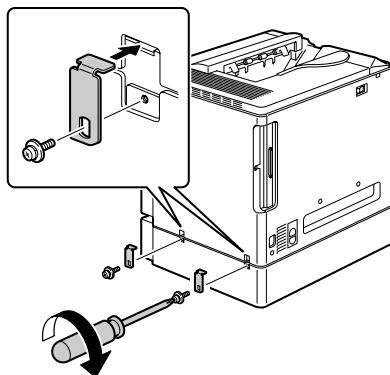
If two lower feeder units are to be installed, stack the two lower feeder units and secure them together before installing them to the printer.



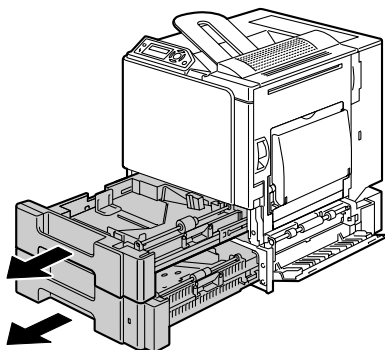
WARNING!

This printer weighs approximately 37 kg (81.6 lb) when it is fully loaded with consumables. The printer must be lifted by two people.

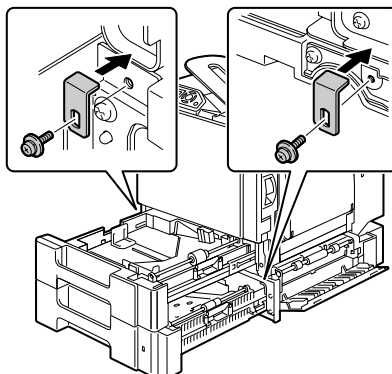
- 5 Using a screwdriver, install the two securing brackets at the rear of the printer.



- 6 Pull out the trays.



- 7 Install the two securing brackets at the front of the printer.

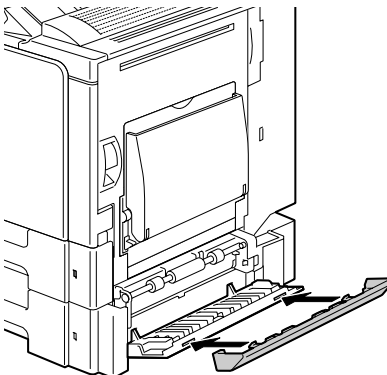


- 8 Close the trays.

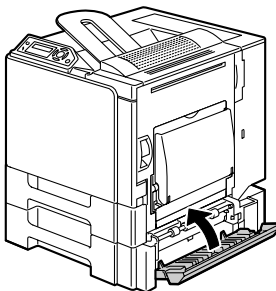
- 9 Attach the transport guide to the right door of Tray 2.



It is not necessary to attach the transport guide to the right door of Tray 3.



- 10 Close the right side cover of the lower feeder unit.



- 11 Install Tray 2 (Tray 3) in the driver (Device Options Setting tab).

Appendix

A

Safety Specifications

Printer		
Safety standards	U.S. model	UL 60950-1, CSA C22.2 No. 60950-1-03
	European model	EU Directive 73/23/EEC EU Directive 93/68/EEC EN 60950-1 (IEC 60950)
	China model	GB 4943
EMC standards	U.S. model	FCC part 15 subpart B class B ICES-003
	European model	EU Directive 89/336/EEC EU Directive 93/68/EEC EN 55022 (CISPR Pub. 22) class B EN 61000-3-2 EN 61000-3-3
	China model	GB 9254 class B, GB 17625.1
	Australian model	EN 55022 class B

Technical Specifications

Printer

Type	Desktop full color tandem laser beam printer
Print system	Semiconductor laser beam scanning + Dry electron photography method
Exposure system	4 laser diode and polygon mirror
Developing system	Mono-component SMT
Resolution	2400 dpi × 600 dpi, 1200 dpi × 600 dpi, 600 dpi × 600 dpi

First print	<p>Simplex (600 dpi) Monochrome/Full color: 14.2 seconds for A4 (plain paper)</p> <p>Monochrome/Full color: 14.1 seconds for Letter (plain paper)</p> <p>Duplex (600 dpi) Monochrome/Full color: 22.3 seconds for A4, Letter (plain paper)</p>
Print speed	<p>Simplex (600 dpi) Monochrome/Full color: 25.6 pages per minute for A4 (plain paper)</p> <p>Monochrome/Full color: 27 pages per minute for Letter (plain paper)</p> <p>Duplex (600 dpi) Monochrome/Full color: 12.3 pages per minute for A4 (plain paper)</p> <p>Monochrome/Full color: 12.5 pages per minute for Letter (plain paper)</p>
Warm-up time	Avg. 30 seconds
Media sizes	<p>Tray 1 A4/Letter</p> <p>Trays 2 and 3 (Optional) B5 - Legal</p> <p>Manual feed tray Paper width: 92 to 216 mm (3.6 to 8.5") Paper length: 148 to 356 mm (5.8 to 14.0")</p>
Paper/Media	<ul style="list-style-type: none"> • Plain paper (60 to 90 g/m²; 16 to 24 lb) • Recycled paper (60 to 90 g/m²; 16 to 24 lb) • Transparencies • Envelopes • Thick Stock 1 (91 to 150 g/m²) • Thick Stock 2 (151 to 210 g/m²) • Postcard • Letterhead • Label sheets • Glossy stock

Input capacity	Tray 1 Plain paper: 500 sheets Tray 2 and 3 (Optional) Plain paper: 500 sheets Manual feed tray Plain paper: 100 sheets Envelope: 10 envelopes Label/Postcard/Thick Stock/Transparency/ Letterhead/Glossy: 20 sheets
Output capacity	Output tray: 250 sheets (A4, Letter)
Operating temperature	10 to 35°C (50 to 95°F)
Operating humidity	15 to 85%
Power supply	110 to 127 V, 50 to 60 Hz 220 to 240 V, 50 to 60 Hz
Power consumption	120 V: 1250 W 230 V: 1250 W
Amperage	110 to 127 V: 11 A or less 220 to 240 V: 6 A or less
Acoustic Noise	Printing: 54 dB or less Standby: 39 dB or less
External dimensions	Height: 440 mm (17.3") (Including outer projection) Width: 455 mm (17.9") (Including outer projection) Depth: 520 mm (20.5")
Weight	Printer: approximately 31 kg (68.3 lb) Toner cartridge: Standard in-box cartridge = 1.42 kg (3.13 lb) (Y, M, C)/ 1.46 kg (3.22 lb) (K) Replacement cartridge (Standard-Capacity)= 1.52 kg (3.35 lb) (Y, M, C)/ 1.55 kg (3.42 lb) (K) Replacement cartridge (High-Capacity)= 1.65 kg (3.64 lb) (Y, M, C)/ 1.68 kg (3.70 lb) (K)
Interface	USB 2.0 (High Speed) compliant, 10Base-T/ 100Base-TX (IEEE 802.3) Ethernet
CPU	ARM9 926EJ-S 200 MHz
Standard memory	64 MB

Consumable Life Expectancy Chart

Item	Average Life Expectancy
Toner cartridge	<p>Standard in-box Cartridge : Printed within a constant environment* 3,000 pages or more (Continuous) 2,750 pages or more (2P/J) Printed outside of a constant environment 2,400 pages or more (Continuous) 2,200 pages or more (2P/J)</p> <p>Replacement Cartridge (Standard-Capacity): Printed within a constant environment 6,000 pages or more (Continuous) 5,500 pages or more (2P/J) Printed outside of a constant environment 4,800 pages or more (Continuous) 4,400 pages or more (2P/J)</p> <p>Replacement Cartridge (High-Capacity): Printed within a constant environment 12,000 pages or more (Continuous) 11,000 pages or more (2P/J) Printed outside of a constant environment 9,600 pages or more (Continuous) 8,800 pages or more (2P/J)</p>
Waste toner bottle	40,000 pages (Monochrome) 10,000 pages (Full color)
Transfer roller	120,000 pages
Transfer unit	120,000 pages
Fuser unit	150,000 pages (Continuous) 130,000 pages (2P/J)
Media feed roller	300,000 pages
Note: *A constant environment is one with a temperature between 15 and 25 °C and humidity between 35% and 70%.	



The values listed in the above table indicate the number of pages for simplex printing using A4/Letter-size media with 5% coverage. The actual life may differ (be shorter) depending on the printing conditions (coverage, paper size, etc.), differences in the printing method, such as continuous printing or intermittent printing (when print jobs of one page are often printed), or the type of paper used, for example, thick paper. In addition, the life will be affected by the temperature and humidity of the operating environment.

Our Concern for Environmental Protection



As an ENERGY STAR® Partner, we have determined that this machine meets the ENERGY STAR Guidelines for energy efficiency.

What is an ENERGY STAR product?

An ENERGY STAR product has a special feature that allows it to automatically switch to a “low-power mode” after a period of inactivity. An ENERGY STAR product uses energy more efficiently, saves you money on utility bills and helps protect the environment.

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